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275	Yue, Nan (1); Menéndez Orellana, Ana (2); Tromba, Ludovica (3); Sesana, Raffaella (3); Grosse, Christian U. (2)	Multimodal non-destructive testing and fusion: case study on lightweight aerospace structures
276	Bosch, Arnoud; Platenkamp, Jacco	Enhanced Eddy Current Array Inspections for Complex Aerospace Structures
277	Strangfeld, Christoph; Ringeloth, David	Air-coupled impact-echo for non-destructive testing of prestressed concrete sleepers
279	Liu, Zenghua (1); Li, Rui (1); Zhu, Yanping (1); Wang, Xiaoran (1); Zhao, xin (2)	Adaptive Fusion Imaging for Delamination Defects in GFRP Composites Based on Terahertz Time-Domain Spectroscopy
280	Liu, Zenghua; Liu, Xiaoyu; Zhu, Yanping	Guided Wavefield Damage Imaging Method via Two-Dimensional Multi-Frequency Sparse Wavenumber Spectrum Reconstruction
281	Wasle, Caspar; Wohltmann, Björn; Rodeck, Rebecca; Wende, Gerko	Damage detection in thin-walled structures using guided waves and an optical microphone
282	Zauli, Matteo (1); Zonzini, Federica (2); De Marchi, Luca (2)	Flexibility Enables Sensitivity: A Multi-sensor Architecture for Structural Monitoring
283	Couture, Stéphan	Case Study - Inspection of Weld Backing Plate
284	Sanchez, Irati; Lanzagorta, Jose Luis; Aizpurua, Iratxe; Mendikute, Julen; Larrañaga, Julen	Advanced Eddy Current evaluation for thermal damage beneath functional coatings
285	Sun, Hongjun; Ozaki, Keita	Laser Ultrasound Combined with Image-Based Analysis for Simultaneous Evaluation of Sound Velocity and Thickness
286	Xargay, Hernan (1,2); Barrera, Mario (3); Domato Jayo, Abel (4)	NDT-CE Applications for Post-Earthquake Structural Assessment: Lessons from the IAEA Mission in Ecuador
288	Wilcox, Paul D (1); Malkiel, Nachman (2); Croxford, Anthony J (1)	Efficient Local Finite Element Simulation of Ultrasonic NDE with Application to Inspection Qualification
289	Rabbat, Elias; Huthwaite, Peter	Quantitative Characterisation of Defects in Pipes Using Guided Wave Testing with Geometrical Full Waveform Inversion
290	Enkelejda, Konda; Dhimitraq, Sotja; Migena, Zeqo	The Evolution of Non-Destructive Testing (NDT) in Albania: From Post-War Foundations to European Integration (1945–2025)
291	Nafiah, Faris; Sautin, Mael; Mawdsley, David	Digital Integration of a Robotic NDT System Through a Real-Time Data Pipeline
292	Xargay, Hernan (1,2); Affum, Hannah (3); Domato Jayo, Abel (4)	Enhancing Resilience Beyond Borders: IAEA Capacity-Building Missions on NDT-CE in Türkiye and Syria
293	Obaton, Anne-Francoise (1); Brouczek, Dominik (2); Schwentenwein, Martin (2); Mödder, Denise (3); Attila Harakály, György (3); Oel, Marcus (4); Luebbehuesen, Jens (5); Ewert, Uwe (6)	Image Quality Indicator for XCT Systems
294	Kyrgiazoglou, Athanasios (1); Skarlatos, Anastasios (1); Fasnakis, Dimitrios (2); Pappa, Maria (3,4)	Magnetic Characterization of Structural Steels under Different Heat Treatment using Pulsed Eddy Current Testing
295	zhang, qian (1); zhang, fuben (1); ding, haoyu (2); wang, ai (2); peng, jianping (1); gao, xiaorong (1); yang, kai (1)	A Diffusion-Based Unsupervised Framework for Wheelset Ultrasonic Defect Detection
296	DI FONZO, DOMENICO (1); AUGUGLIARO, GIUSEPPE (1); DELLI QUADRI, FAUSTA (2); MARRAZZO, ROMUALDO (2); VAZZANA, FABRIZIO (2); BARTOLOZZI, VINCENZO (3)	Structural integrity of GFRP (Glass Fiber Reinforced Polymer) non-pressurized reactor – main aspects and case study analysis
298	Stocker, Thomas; Gosswami, Bishwajit Mohan; Chanda, Rajib Kumar; Sukowski, Frank; Schön, Tobias	Integration of AI-Based Automatic Defect Recognition (ADR) in X-ray Inspection of Castings
299	Doubek, Ondrej	Effective and modern methods of testing large forgings or castings with customer-designed MT systems

300	Ogrzewalla, Andreas; Achtenberg, Mark; Fuchs, Martin	Ultrasonic Probes for Non-Destructive Testing Without Lead-Based Piezoceramics?
301	Lee, Joo-Hyung; Joh, Changbin; Choi, Ji-Young	Development of an Optimized Non-Contact SFCW-SAR Scanning System for Concrete Structures
302	Monica, Luigi; Anastasi, Sara	Non-destructive testing for the safety of an elevated work platform
304	Steinbrecher, Niklas; Maier, Hans Jürgen; Barton, Sebastian	Non-destructive Evaluation of Microcracks in WC-10Co-4Cr (HVOF) Coatings using Eddy Current Testing and Induction Thermography
305	Demma, Alessandro; Valle, Victor Manuel; Garcia Aguilar, Guillermo	Microwave inspection of HDPE pipes and joints
306	INFORTUNA, PAOLO (1); SANTORO, FRANCESCO (2); SPINOSO, SALVATORE (3)	From Incident Analysis to Prognostic Safety: An INAIL Framework for Residual Life Estimation Based on Real Cases and NDE 4.0 Technologies
307	Mares, Pavel; Zivny, Petr; Mekuta, Marek	Application of the Potential Method for Real-Time Crack Detection in High-Temperature Components
308	DiBattista, Andrew (1); Cartlidge, Nathan (1); Whitmore, Tim (2)	Real-Time Subsea Cable Motion Monitoring via SSTDR
309	Le Berre, Stéphane (1); Jezzine, Karim (1); Banchet, Julien (2); Pinto, Patrice (2); Mathieu, William (2)	CIVA Scan Plan: a generic framework for ultrasonic coverage evaluation and inspection plan optimization
311	Uesugi, Kenta; Awano, Hiromu; Hatsukade, Yoshimi	Research on Remote Magnetostrictive Ultrasonic Guided Wave Testing for STPG370 Pipes Under Insulation
312	Kanis, Lisanne; Jansen, Patrick; Volker, Arno	Resolution Enhancement by Sparse Deconvolution for Composite Panels with Embedded Wiring
314	Li, Huiying; Hartmann, Timo	Self-Supervised Anomaly Detection in Extremely Imbalanced Ultrasonic Railway Data: An Adaptive Triplet-Center Approach
315	Posypaiko, Yurii (1); Andreev, Anatoliy (2)	Monitoring the technical condition of the fuel storage facility at the Ukrainian Antarctic Akademik Vernadsky station
316	Volker, Arno; Jansen, Patrick	Simultaneous Thickness Measurement of Multiple Bondlines using Transmission Measurements
317	van Elburg, Benjamin; Jansen, Patrick; Volker, Arno	Simulations and experiments to optimize Laser Ultrasonic Testing
318	Tiitta, Markku (1); Tiitta, Valtteri (1); Wen, Jiang (1); Immonen, Kirsi (2); Asad, Faisan (2); Lappalainen, Reijo (1); Tomppo, Laura (1)	Analyses of advanced bio-composites using acoustic emission and machine learning
319	Neubert, Holger	Lead-free piezoceramics – Available materials and application prospects in ultrasonic testing
321	ESTERMANN, Flora (1,2); GUY, Philippe (2); DELACHARTRE, Philippe (1); KAFTANDJIAN, Valérie (2)	Unsupervised Defect Detection in Industrial Images with Conformal Anomaly Detection and VAEs
322	Schmitte, Till (1); Labud, Patrick (1); Thewes, Lena (1); Orth, Thomas (1); White, Michael (2); Weil, Christoph (2); Böcking, Marco (2)	A New Concept for Calibration of Weld Seam Testing for HFI-Pipelines Using Embedded Mid-Wall-Reflectors
323	Hartfill, Judith; Schmied-Kowarzik, Rahel Louise; Wilken, Andreas; Kaschub, Lina; Rodeck, Rebecca; Wende, Gerko	Augmented Reality in Aircraft Maintenance
325	Bolinhas, Francisco (1); de la Cuesta, Juanjo (2); Cooley, Seth (2); Santos, Telmo G. (1,3); Machado, Miguel A. (1,3)	Eddy Current-Based NDT of Braided Multistrand Carbon Fiber Rigging
326	Stamm, Michael (1); Hu, Martin (2); Schock, Jonathan (3)	Eliminating Artifacts and Boosting Efficiency with Varex TrueSpectrum Imaging
327	Benuzzi, Stefano (1); Mascolo, Francesco (2); Guelfo, Sara (3); Furente, Liberata (4)	Computed tomographic inspection in the aerospace industry: guidelines for standardize the inspection process according to Italian experience

328	Induti, Marco; Tinari, Massimiliano; Yersin, Manuel; Stara, Erik; Scaccabarozzi, Luca	Automated Borescope Inspection with AI Support for Visual Testing
329	Bakry, Marc; Biezemans, Rutger A.; Demaldent, Edouard	Coupling Eddy Current and Thermal Diffusion Simulation to Model Induction Infrared Thermography in CIVA
330	Gondrom-Linke, Sven (1); Ramos, Tiago (1); Schmid, Simon (2)	Multi-stage image processing approach for 3D-CT based in- or at-line inspection of battery cells.
331	RABAGLIA, SARA (1); PIERETTI, NICHOLAS (2); MASSIMI, CRISTIAN (1,2)	Production of ²⁶ Al and ¹⁰ Be via neutron reactions in SiO ₂ rocks: implications for burial dating related to the Cradle of Humankind--UNESCO World Heritage Site
332	Mendikute, Julen; Lanzagorta, Jose Luis; Aizpurua, Iratxe; Sanchez, Irati; Ermina, Irantzu	A Human-Centric Framework for Incremental and Active Learning in AI-Based Non-Destructive Testing
333	Ribay, Guillemette; Yilmaz, Bengisu; Axel, Thomas; Baudis, Quentin; Recoquilly, Arnaud	Evaluation of material properties of plates with PAUT using particle swarm optimization inversion procedure
334	Fuentes-Dominguez, Rafael (1); Karet, Samuel (1); La Cavera III, Salvatore (1); McIntyre, Alan (2); J. Smith, Richard (1)	Spatially Resolved Acoustic Spectroscopy: from hard to soft materials elastic characterisation
335	Chang, Liuyu; Drinkwater, Bruce; Zhang, Jie	Random Walk Modelling of Hydrogen-induced Defects for Ultrasonic Response Analysis
337	Kazakevych, Mykhailo Leonidovych; Denyshchenko, Oleksiy; Kazakevych, Volodymyr	Development of NDT technology by means THz radiation and penetrants in aerospace
338	Zhao, Jun	3D Weld Seam Sensor for the Detection of all types of Defects on the Material Surface
339	Belanger, Pierre (1); Painchaud-April, Guillaume (2); Le Duff, Alain (2); Gauthier, Baptiste (2); Rasolonirina, Tony (1); Thon, Aurelien (1); Niddam, Rafael (1)	Seven Years of Innovation in Binary Ultrasonic Imaging for NDT
341	Glinz, Jonathan; Heupl, Sarah; Thalhammer, Julia; Kastner, Johann; Senck, Sascha	Dual-Temperature-CT: An Experimental Method for Three-Dimensional Polymer Characterization
342	Zepp, Chris	X-Ray Defect Recognition – Reliable and Efficient with AI Support
343	Wan, Fangyuan (1); Zhang, Jie (1); Mulholland, Anthony J. (2)	Tomographic Reconstruction of the Subsurface Grain Structures in Polycrystalline Materials using Full-Waveform Inversion
344	Zhu, Pengfei (1); Zhang, Hai (1,2); Maldague, Xavier (1)	Internal Temperature Field Prediction Using Helmholtz-Informed Neural Networks
345	Solomakha, Roman (1); O'Shea, Connor (2); Bezlyudko, Hennadii (3)	Application of NDT magnetic property (coercivity) measuring method for indicating mechanical state of steel after induction pipe bending
346	Ji, Bonggyu (1); Heo, Min (1); Kim, Ho Kyoung (1); Kim, Seong Yeon (1); Shin, Seongdong (1); Choi, Wonjae (2)	Non-Contact Ultrasonic Evaluation of Alignment Accuracy in Automotive Lamp Testing
347	Eisele, Lars; Esse, Daniel; Liebig, Wilfried	Manufacturing and Characterisation of artificial-induced Defects in Fibre Metal Laminates for Modal Analysis
348	Rehfeldt, Thomas; Köck, Alexander; Weber, Andreas; Motschieder, Sandra; Bargsten, Jeanne	Challenges for automated ultrasonic testing of forged parts with immersion technique
349	Ge, Tianxiang (1,2); Li, Jiaxin (1,2); Zhao, Bo (1,2)	Ultrasonic Evaluation of Equivalent Stress in Bolts Using Acoustic Birefringence
350	Golitsyn, Yury; Steinhausen, Ralf	Refractories under Observation: Comparison of Air-coupled Ultrasound Testing and Computed Tomography
351	Hussung, Raphael (1); Gantenbein, Rodrigo (2); Friederich, Fabian (3); Kress, Jürgen (2); Bauer, Maris (1)	Terahertz Inline Measurement System for Continuous Tracking of Inner Pipe Positions During the Production of Insulated Pipe Systems

352	Herold, Frank; Kühne, Jonas	Robotic CT for Quality Assurance of Arbitrary Test Objects in an NDE 4.0 Smart Factory Environment
353	Samaitis, Vykintas; Raišutis, Renaldas; Asokkumar, Aadhik	Detection and staging of hydrogen induced damage in heat exchanger shells using machine learning techniques
354	Hillmann, Susanne (1); Friese, Martin (1); Gräfin, Jan (2); Berger, Gisbert (2); Strangfeld, Christoph (3); Ringeloth, David (3); Pukenas, Aurimas (4); Krüger, Peter (4); Hofmann, Dirk (4); Vaculik, Selina (5); Aguilar, Mario (5); Linden, Christian (5)	NDT methods for crack detection in prestressed concrete railroad sleepers
355	YALAGADA, Raju (1); BARUT, Silvère (1); PREMEL, Denis (2)	From PT to ECA: A Simulation-driven study on key parameters in Eddy Current Array Inspection method development
356	Dethof, Fabian; Marsili, Francesca; Keßler, Sylvia	Investigating the quality of grouting for tendon ducts using numerical UT-simulations
357	Huber, Norbert (1); Hoffmann, Maximilian (2); Mauthner, Gernot (2); Reitinger, Bernhard (1)	Laser Ultrasound in Wire Arc Additive Manufacturing: Imaging of internal structure and defects
358	Romito, Carlo (1); Cipolla, Stefano (1); Centenaro, Francesco (2)	Transition from Internal Visual Testing (VT) to External Robotized Phased Array Ultrasonic Testing (PAUT) for Periodic Pressure Vessel Examinations in Switzerland
359	Kirschbaum, Kerstin (1,2); Goldammer, Matthias (2); Grosse, Christian U. (1)	Nonlinear P-POD: Enhancing Probability of Detection in X-ray Thickness Inspections
360	Petitpré, Hélène (1); Tene Deffo, Yves Armand (2,3,4); Vindolet, Baptiste (5); Guedes Sales, Daniella (1); Wegerhoff, Kerian (1); Ducharme, Benjamin (2,6); Hingant, Thomas (5)	Detecting α' -martensite in 316L austenitic steels with magnetic NDT technologies
361	Bussy, Victor; Escoda, Julie; Touren, Anthony; Costin, Marius	Optimized Methodology for Tomographic Reconstruction in X-Ray Inspection Using the CIVA Simulation Platform
362	Koppenhofer, Stefan; Salamon, Michael; Kilian, Sven; Reims, Nils; Böhnel, Michael; Prjamkov, Dimitri	Non-destructive battery testing at the EZRT – From fast screening to high-precision 3D analysis
363	Kirchberger, Daniela; Eitzinger, Christian; Walenta, Wolfram; Leitner, Markus	Coverage Analysis of automated robotic inspection of large aircraft parts
365	Tian, Kang (1); Kou, Liaoyu (1); Zhao, Bo (2); Gao, Xiaorong (1); Peng, Jianping (1)	Research on Steel Rail Surface Rolling Defect Detection Using the Fusion of Inductive Thermography and Optical Imaging Technologies
366	GRANDE FERREIRO, Antonio (1); ALBA RODRIGUEZ, José Ignacio (2); ACEBES PASCUAL, Montserrat (1); SÁNCHEZ-JIMENEZ, Darío (2); GAUNA LEON, Iñaki (1); ANAYA VELAYOS, José Javier (2); AGUADO TRIGUEROS, M. Teresa (1); APARICIO SECANELLAS, Sofia (2)	Monitoring System for the Manufacturing Process of CFRP Structures
367	Heupl, Sarah (1); Thalhammer, Julia (1); Mills, Bernice (2); Menon, Nalini (2); Nissen, April (2); Kastner, Johann (1)	CT-Based Investigation of Defect Evolution in Polymeric Components under Cyclic Mechanical and Hydrogen Pressure Loading
368	Gahleitner, Lukas; Mayr, Gernot; Mayr, Günther	Enhanced photothermal reconstruction of back wall near defects in pulsed thermography using the virtual wave concept
369	GAUNA LEON, Iñaki (1); PARRILLA ROMERO, Montserrat (2); ACEBES PASCUAL, Montserrat (1); APARICIO SECANELLAS, Sofia (2); GRANDE FERREIRO, Antonio (1); GONZALEZ HERNANDEZ, Margarita (2); AGUADO TRIGUEROS, M. Teresa (1)	Real-Time Defect Detection Using Artificial Intelligence Models in Ultrasonic Inspections

370	ACEBES PASCUAL, Montserrat; ALVAREZ GARCIA, Marcos; GRANDE FERREIRO, Antonio; GAUNA LEON, Iñaki; BENITO ESCOLAR, Carlos; AGUADO TRIGUEROS, M.Teresa	Artificial Intelligence and Computer Vision for Automated Aircraft Defect Detection
371	Rozo Vasquez, Julian (1); Mohsin, Muhammad Rafay (1); Arian, Bahman (2); Kersting, Lukas (3); Homberg, Werner (2); Trächtler, Ansgar (3); Walther, Frank (1)	Coupled magneto-optical Kerr effect and magnetic Barkhausen noise investigation for detecting strain-induced martensite formation due to flow forming of metastable austenitic steel AISI 304L
372	Vilches, Celia (1); Salinas, Amalia (1); Yosifov, Miroslav (2); Senck, Sascha (2); Galleguillos, Carlos (1)	Integration of Simulated and Experimental CT Data for Automated Defect Detection in Additive Manufactured Components
373	Draudviliene, Lina; Tumšys, Olgirdas; Lapienis, Paulius	A tool to evaluate simultaneously the phase and group velocities of the asymmetric Lamb wave mode using two adjacent signals
374	Lakhout, Douha (1,2); Ranaivomanana, Narintsoa (2); Taillade, Frédéric (1); Iooss, Bertrand (1); Balayssac, Jean-Paul (2)	Data-Driven Geostatistical Mapping of Concrete Mechanical Properties from Ultrasonic Measurements
375	Delmotte, Simon; Gueudré, Cécile; Ploix, Marie-Aude; Vallée, Jean-Christophe; Corneloup, Gilles	Ultrasonic NDT of a multipass austenitic GTAW weld: challenges related to welding position.
376	Buchmeier Hevroni, Iris	High-Resolution Immersion Ultrasonic Testing of Critical Aerospace Parts in MRO Operations
377	Chaize, Eliot; Benoist, Grégoire; Perret, Valentin; Neau, Guillaume	Field-Driven Innovation in Corrosion Mapping: A New Standard for Handheld Phased-Array Devices
378	Schulze, Till (1); Rake, Maren (2); Schulze, Martin (2); Gromberg, Natalia (3); Heuer, Henning (1); Drossel, Welf-Guntram (3)	Development of an eddy-current probe for quality control of conductive 3D printing by FEM simulation
379	Jordan, Benoit; Romito, Carlo; Algernon, Daniel	Performance Comparison of Total Focusing and Phased Array under Practical Inspection Uncertainties
380	Raude, Angélique (1); morais, ghislain (2); turcu, florin (1)	Complementary Use of Volumetric and Surface Non-Destructive Techniques for the Detection and Evaluation of Stress Corrosion Cracking in Critical Energy Assets
381	Hernandez, Alexis (1,2); Dobie, Gordon (1); MacLeod, Charles (1); Gough, Iang (2); Hansen, John (2); Mohseni, Ehsan (1)	Adapting Conventional Dual-Channel Eddy Current Instruments for Flexible Array Operation in Harsh Environments
382	Lysenko, Iuliia (1); Kuts, Yurii (1); Uchanin, Valentyn (2); Mirchev, Yordan (3)	Analytical-Numerical Signal Modeling for Eddy Current Probe in Subsurface Defect Detection Tasks
383	MAAZAZ, zakariae; LEFEVRE, Fabien	Effect of plastic strain and reloading stress on the acoustic birefringence of a martensitic steel
384	Kanzler, Daniel	European Reliability Framework: A Bridge between the different systems in NDT and the key for NDT 4.0
385	Bron, Michael; Miltreyger, Elena	Practical Implementation of Phased Array Ultrasonic Testing (PAUT) in Automated Disc Inspection Systems
386	Ziegelwanger, Tobias; Sommerhuber, Ryan; Pörnbacher, Josef; Fischer, Balthasar	Advancing Quality Assessment of Adhesive Bonds through Automated Laser-Excited Ultrasonic Inspection
387	Brierley, Nick; Mrzljak, Karin; von Schmid, Mirko; Weiß, Moritz; Zengerling, Benjamin; Günnewig, Olaf	Advances in X-ray CT of Large & Dense AM Components
388	Vishwesh, Vishwesh (1); Böttger, David (2)	An Explainable and Standards-Aware AI Framework for Automated Ultrasonic Inspection Using Volumetric Learning, Compliance Encoding, and RAG-Based Reporting
389	Li, Wenqi; Clark, Matt; J. Smith, Richard	Non-destructive orientation and elasticity determination of the Gibeon meteorite using Spatially Resolved Acoustic Spectroscopy
390	Sharma, Atul; Hughes, Robert	Experimental and numerical investigation of orientation-dependent eddy-current behavior in CFRP laminates

391	LEFEVRE, Fabien (1); NDAO, Bada (1); LAZZARI, Olivier (1); OUEDRAOGO, Daryl (2); CLAUSSE, Bastien (2); FOUCHER, Fabrice (2)	Probability of detection of an automated ultrasonic testing inspection system in the seamless pipe industry
392	Weihnacht, Bianca; Kuehnstedt, Mario; Augustin, Jörn; Stephan, Mareike; Gaul, Tobias; Tautz, Lili; Neubeck, Robert	Distributed Acoustic Sensing (DAS) for the monitoring of infrastructure – challenges and limitations
393	KAUFFMANN, Pierre (1); JACQUET, Jean-Baptiste (1,2); FARAZ, Khuram (2); GUEY, Jean-Luc (1); TAMRAOUI, Mohamed (2); NICOLAS, Barbara (2); LIEBGOTT, Hervé (2); COFFY, Etienne (1)	Sparse 3D imaging
394	Fuentes-Dominguez, Rafael; Todd, Martin; J. Smith, Richard; Clark, Matt	Adaptive Laser-Induced Phased Arrays for Volumetric Imaging of Defects in 3D Curved Surfaces
395	Wang, Xiangyu (1,2); Kerseman, Mathias (2,4); O.Krushynska, Anastasiia (1); E. Bal, Ihsan (1); Yi, Qiuji (3); Cheng, Liangliang (1)	Frequency-Kernel Based Virtual Wave Thermography for Composite Panels
396	Vindolet, Baptiste; Bourcin, Guillaume; Nguyen, Hoai Nam; Hingant, Thomas	NV-NDE: a novel technique using quantum diamond sensors for non-destructive evaluation of metals
398	Costin, Marius; Bussy, Victor; Escoda, Julie; Lemaire, Hermine; Rathore, Jitendra Singh; Stolidi, Adrien; Touron, Anthony	Modelling and simulation use in X-ray Computed Tomography for NDT
399	Vrolijk, Jan-Willem; Hassefras, Emiel; Mout, Marco; van der Heiden, Maurits; Merks-Swolfs, Egon; Martina, Quincy	Advancements in Direct Velocity Mapping Applied to Composite Panels
400	Würschig, Thomas; Fey, Peter; deOdorico, Walter; Falter, Stephan	Enhanced inspection applications using modulated ultrasonic transmitters
401	Cai, Yongxing; Mulholland, Anthony; Zhang, Jie	Distinguishing defects from corrosion in ultrasound images
402	Ewert, Uwe (1); Roth, Holger (2); Obaton, Anne-Francoise (3); Kueng, Alain (4); Gutekunst, Josephine (5); Neuschaefer-Rube, Ulrich (6); Blumensath, Thomas (7); Hoerauf, Fritz (1); Katic, Marko (8)	New Standards and Requirements for Quality Assurance in Industrial Computed Tomography
403	Wendorf, Justin (1); Turcu, Florin (2)	New Solutions Focused on Phased Array for the Inspection of High-Density Polyethylene
405	Eibofner, Frank; Hecker, Friedrich	Direct Current Magnetic Flux Leakage Testing (DCMFL): Improving Repeatability for Oblique Defects by DC-Demagnetization
407	Baensch, Franziska (1); Schmitt, Michael (1); Müller, Daniel (1); Zscherpel, Uwe (2); Ewert, Uwe (3)	European and international standardization – a strategic tool for stakeholders in NDT
408	Mandache, Catalin (1); Dionne, Leo (1); Prigli, Antal (2)	Assessment of Through-Transmission Eddy Currents for Subsurface Crack Detection
409	Kalembe-Rec, Izabela (1); Kapayeva, Sarken (2); Hansen, John (3); Bergander, Marek (1)	Eddy Current Testing for Subsurface Defects in Dissimilar Aluminum Alloy Joints Produced by Friction Stir Welding Method

410	Reindl, Timo; Chung, Phi-Long; Bonten, Christian; Kreutzbruck, Marc	Study and modelling of non-linear effects for acoustic quality monitoring of an ultrasonic welding process
412	Eberhorn, Markus; Rettenberger, Simon	Multi-Source-CT - 100% inline inspection of extruded and pultruded profiles using computed tomography
413	Minoura, Kohei (1,2); Uchimoto, Tetsuya (2); Kosukegawa, Hiroyuki (2); Hashimoto, Shuhei (3); Kudo, Kohei (3); Hashimoto, Mitsuo (4); Takagi, Toshiyuki (5)	Quantitative Evaluation of Crack Depth in Ceramic Matrix Composites Using Eddy Current Testing
414	Li, Jiaxin; Sheng, Tianchen; Zhao, Bo	Corrosion Detection in Small-Diameter Pipelines Using Electromagnetic Ultrasonic Excitation of Zero-Group-Velocity Longitudinal Guided Waves
415	Foppoli, Dario (1); Giuliani, Guido (2); Scamoni, Patrizia (3)	Analysis and monitoring of the covering of Loggia Palace at Brescia - Italy
416	Park, Chanwon (1,2); Lee, Jaebeom (1,3); Lee, Young-Joo (2)	Correlation-Based Memory Updating for Continual Learning Under Limited Data Conditions
417	Whitmore, Tim (1); Onoufriou, Constantinos (1); Chen, Lujia (1); Peyton, Anthony (1); Xu, Guangqiao (2)	Electrical Reflectometry for Early Fault Detection in Power Cables
419	Malkiel, Nachman (1,2); Croxford, Anthony J. (2); Wilcox, Paul D. (2)	Efficient Evaluation of Ultrasonic Phased Array Performance with Applications to Limited-Firing Scenarios
420	Le Bourdais, Florian; Ribay, Guillemette; Jacques, Marie-Bénédicte	Resonant Ultrasound Characterization of Materials in the ECOBALLIFE Project
421	Rathore, Jitendra Singh; Bussy, Victor; Costin, Marius; Jacques, Marie-Bénédicte	From Conventional Tomography to Laminography: Geometry-Specific Trajectory Optimization and Reconstruction Strategies
422	Panerai, Alessandra; Oneda, Benedetta; Martulli, Luca Michele; Bernasconi, Andrea; Carboni, Michele	Acoustic emission and distributed backface strain monitoring of crack growth in composite adhesively bonded joints under mode II fatigue loading
424	conrad, Christian (1); Gabi, Yasmine (1,2); Mueller, Thorsten (1)	Advancements in Nondestructive Testing and Monitoring Process
425	Sforza, Giorgio	Dynamic Monitoring of Bridges and Viaducts
426	Sforza, Giorgio	Dynamic monitoring of monumental artifacts
427	Vasanelli, Emilia (1); Sticchi, Matteo (2); Blasi, Gianni (2); Perrone, Daniele (2)	Integration of UPV data in H-BIM environment for strength estimation and monitoring of building stones in architectural heritage
428	Tamimi, Yasmin W. (1,2); Cappellesso, Vanessa G. (2); Lefever, Gerlinde (1); De Belie, Nele (2); Aggelis, Dimitrios G. (1)	Ultrasonic assessment of damage evolution and self-healing in in high-performance PVA fiber-reinforced concrete
429	Demaldent, Edouard (1); Vigneron, Audrey (1); Ghibaudo, Olivier (1); Corazza, Alexandre (2); Banchet, Julien (2)	Modelling study of surface treatment on eddy current testing: Influence of geometry
430	Tonti, Andrea (1); De Blasi, Pietro (2)	Life Assessment of Martensitic Steels — Experimental Validation Activity of XRD by Testing Martensitic Steels Samples from Interrupted Uniaxial Creep Tests
431	Vinogradov, Sergey (1); Fisher, Jay (1); Grädel, Patrick (2); Dupuis, Pierre (2); Hirschhausen, Dominik (2)	Corrosion Mapping in Buried Section of Monopoles Using Magnetostrictive Transducer Arrays
432	Rossi, Alessandro (1); Liuzzi, Matteo (1); Moschitti, Davide (1); Bonetti, Cristiano (2); Zanetti, Davide (2)	Integrated system for advanced monitoring of steel ropes based on 3D visual and dimensional analysis to support the magneto-inductive method (MRT)
433	Gromberg, Natalia (1); Boxberger, Lukas (1); Schulze, Till (2); Heuer, Henning (2); Drossel, Welf-Guntram (1)	Local Resistance Evaluation of Printed Electronics During Jet-Dispensing and IR-Sintering Using Eddy Current and Laser Profilometry with Temperature and Lift-Off Compensation

434	Soni, Akshar (1); Rechlin, Jonas (2); Horbrügger, Tobias (3); Serrano-Munoz, Itziar (1); Schmidt, Franziska (2); von Stein-Lausnitz, Manja (2); Zaslansky, Paul (2); Beuer, Florian (2); Fleck, Claudia (3); Kupsch, Andreas (1)	Simulation of functional ageing towards failure prediction of dental restorations - Investigating the crown-cement-tooth complex using synchrotron x-ray refraction radiography
435	Davison, Matthew	A novel method to measure wall thickness under an obstruction by conventional ultrasonic thickness and flaw gauges
438	Khalil, Kamal; Forster, Samuel J. I.; Podd, Frank J. W.; O'Toole, Michael; Peyton, Anthony J.	High-Resolution FMCW Radar for Non-Destructive Testing of RAAC Structures
439	BOULE, Alexandre (1); QUENEE, Bernard (2); BALAYSSAC, Jean-Paul (3); CORDIER, Nathalie (4); GWINNER, Sophie (5); OSTROWSKI, Christopher (6); DEROBERTE, Xavier (7); VINCENT, Bernard (8); BOURREAU, Lucas (9); LE BEC, Jules (10); SBARTAI, Mehdi (11); EL TAHIR, Sandra (12); GENEAU, Stéphane (12)	French Certification of NDT operators for the detection of reinforcement in concrete structures
440	Motte, Robin (1); Vander Linden, Matthieu (1); Ghesquiere, Dana (1); Steenessens, Luka (1); Sudhakar, Anil (1); Hectors, Kris (1,2); De Waele, Wim (1,2)	How as-built surface waviness affects the fatigue performance of steel components remanufactured by wire arc additive manufacturing
441	Orta, Adil Han (1); Chabanet, Sylvain (1); Kerseman, Mathias (1,2)	Real-time Stiffness Characterization of Complex-shaped Metal Parts by Vibrational Testing and Machine Learning
442	Conrad, Christian (1); Caspary, Stefan (1); Raude, Angélique (2)	Pasawis – The innovative Wheel Set Inspection System
443	Mueller, Kristin; Herold, Frank	High-speed X-ray CT for inline battery inspection
445	Grassin, Florence (1); Cardoso, Michel (1); Saint-Martin, Vincent (1); Bergeaud, Vincent (1); Banchet, Julien (2); Mayau, Cécile (2)	Traceability and operator assistance system for manual UT non-destructive testing
446	Zhou, Lei {Frank} (1); Jolfaei, Mohsen A. (1); Wilson, John (2); Slater, Carl (1); Davis, Claire (1); Peyton, Anthony (2)	In-Situ Electromagnetic Monitoring of Annealing Behaviour in Interstitial-Free Steel Using a High-Temperature Furnace Rig
447	Wu, Fanfu (1); Zhou, Lei (1); Hobson, Shaun (2); Green, Matthew (3); Davis, Claire (1)	Non-destructive electromagnetic sensor array for spatially resolved phase transformation monitoring in steel narrow strip and rod processing
448	Augugliaro, Giuseppe; Artenio, Emanuele; Balistreri, Riccardo; Gattamelata, Davide; Giacobbe, Francesco; Spanu, Omero	Target 3D for visual testing with drones
449	Simpson, Andrew; Boat, Matthew	Optimizing Tank Integrity Management: Advanced Data-Driven Approaches for Inspection Interval Optimization
450	Somens Lorenzi, Luciani; Lorenzi, Alexandre; Reginato, Lucas Alexandre	Ultrasonic Tomographic Evaluation of Structural Homogeneity in Reinforced Concrete Columns
451	Serrati, Douglas (1); Ramalho, André (1); Mendes, Nuno (1,2); A. Machado, Miguel (1,2); Vieira, Pedro (3); Oliveira, Rodolfo (4); P. Oliveira, João (5); G. Santos, Telmo (1,2)	Multiphysics Monitoring and NDT of Wire Arc Additive Manufacturing
452	Hu, Yiliang (1,2); Bai, Long (1)	Crack Characterization Using Multi-Scale Scattering Matrix Denoising Extrapolation and Optimal Scale Selection

453	zhang, rui (1); Orta, Adil Han (1); Kersemans, Mathias (1,2)	Multi-Mode Nonlinear Resonant Ultrasound Spectroscopy (MM-NRUS) for Quality Control of Additively Manufactured Metals
454	Gilbert, David	NDT in Art: how NDT techniques reveal hidden features in Vermeer's paintings
455	Šeštokė, Justina; Butkevičiūtė, Eglė; Smagulova, Damira; Jasiūnienė, Elena	Non-destructive characterization and evaluation of adhesive joints using artificial intelligence tools
456	Gürtl, Benedict	Automated Robot Path Planning for Camera-Based Magnetic Particle Inspection
457	Wagner, Christian	AI in ultrasonics spot weld inspections
460	Cornes, Jack (1); Henault, Jean-Marie (2)	Climbing Robots: A New Era for NDT on Tall Structures
461	Elkarmoty, Mohamed (1,2); Helal, Khalid (1,2); Pugacheva, Polina (3); Schumacher, Thomas (4); Tayoubi, Mehdi (5,6); U. Grosse, Christian (3); Helal, Hany (1,2,6)	Revealing Hidden Structures in the Eastern Wall of Menkaure Pyramid using NDT Techniques
462	Stamm, Michael; Chaudhuri, Somsubhro; Lecompagnon, Julien; Grzywok, Patrick	Thermographic Monitoring of a 78m Wind Turbine Blade during Fatigue Tests
463	Spies, Martin; Chinta, Prashanth; Falter, Stephan	Defect Reconstruction via Total Focusing Method and Phase Coherence Imaging for Materials Exhibiting Elliptical Anisotropy
464	Bergeaud, Vincent (1); Chatillon, Sylvain (1); Holland, Steve (2); Massey, Terrill (3); Mistral, Quentin (4); Schumm, Andreas (4); Wilcox, Paul (5)	ONDE (Open Non Destructive Examination) file format – technical choices
465	IAZOURENE, Tarik; LAROUCHE, Etienne; PONTON, Jimmy	Inspection of welds on thin stainless steel sheets using advanced ultrasonic TFM-FMC technique
467	Lecompagnon, Julien (1); Zito, Rocco (2); Laureti, Stefano (2); Ziegler, Mathias (1); Ricci, Marco (2)	Active thermography with pulse compression for thermally fast materials
468	Feistkorn, Sascha	Qualification and Certification of NDT Personnel in Civil Engineering (NDT-CE)
469	Kunji Purayil, Sruthi Krishna (1); Fioresi, Rita (2); Lapenna, Michela (2); Hirsch, Philipp Daniel (1); Lecompagnon, Julien (1); Ziegler, Mathias (1)	Superpixel Graph Attention Network for Crack Segmentation in Complex Components Using Automated Laser Thermography
470	Rheault, Sophie-Anne (1); Bellermare, Jonathan (2); Buist, Alexandre (2); Ménard, David (1); Pouliot, Nicolas (2); Sirois, Frédéric (1)	Advances in Drone-Deployed Magnetic Probe for Transmission Line Cables and Material Characterization
472	Jang, Jaewon (1,2); Kim, Yongtag (1); Lee, Hyoseong (1,2); Kim, Ki-Bok (1,2)	A Study on Anomaly Detection in Operating Bearing using Acoustic Emission and Deep Learning
473	Grosse, Christian (1); Elkarmoty, Mohamed (2); Schumacher, Thomas (3); Marini, Benoit (4); Tayoubi, Mehdi (5); Helal, Hany (2)	NDT, building models, numerical simulations, image fusion, and virtual reality – case study investigating an old cultural heritage structure
474	Lhémy, Alain (1); Agon, Flavien (1); Vincent, Sarah (1); Moine, Julien (2); Vu, Quang Anh (2); Wegerhoff, Kerian (2); Zhang, Fan (2); Daniel, Laurent (3); Abderahmane, Abdellahi (3); Domenjoud, Mathieu (3); Quidort, David (4); Cousin, Guillaume (4); Proust, Antoine (4)	A Multimodal Non-Destructive Method for Local and Non-Local Characterization of Residual Stresses in Rolled Steel Plates

475	Stara, Erik; Scaccabarozzi, Luca; von Trzebiatowski, Oliver; Induti, Marco	Remote-Support Technology for Data Interpretation and Services in Automated UT: The Autosonic™ Use Case
476	Nagai, Masaki (1); Natsume, Yukinobu (2); Lin, Shan (1); Nakahata, Kazuyuki (3)	Ultrasonic Wave Propagation Analyses in Cast Stainless Steel using Solidification Grain Structure Models Predicted by Cellular Automaton Approach
477	Ochiai, Makoto (1); Yamamoto, Setsu (2)	Toward NDT Digitalization: Challenge to Correlating Inspection Locations with NDT Data
478	Brandão, Ana Carolina P. S. (1); Soares, Iane de A. (1); Souza, Caio Henrique A. de (1); Nogueira Jr., Laudemiro (2); Eckstein, Carlos B. (2); Pereira, Gabriela R. (1)	Analysis of Transmit-Receive Coil Spacing for Phase-Based Depth Characterization in Eddy Current Array
479	Pillai, Anjaly Jayakumar; Kudela, Pawel; Radzienski, Maciej; Soman, Rohan; Wandowski, Tomasz	Damage localization in a rod by utilization of guided wave mode separation
480	Hyla, Bartosz; Ambroziński, Łukasz; Pieczonka, Łukasz	Cognitive Robotic System for Adaptive Non-Destructive Inspection with Laser Thermography
481	Chen, Zhenmao	NDE of Mechanical Properties of Fatigue Damaged Austenitic Stainless Steel with ECT Signals
482	Palladino, Domenico (1); Di Turi, Silvia (2); Calabrese, Nicolandrea (2); Massafra, Angelo (3); Coraglia, Ugo Maria (4)	Data-driven integration of non-destructive envelope diagnostics into HBIM for energy-aware digital models of historic buildings
483	BERTRAND, Cédric (1); BARUT, Silvère (2)	Enablers to boost the benefits of Artificial Intelligence for NDT
484	Kerseman, Mathias (1,3); Debusschere, Cedric (1,2); Van Den Abeele, Koen (2); Ma, Yusheng (1,2)	Acousto-Optic Tomography-Holography: a Novel, Sensitive and Quantitative NDT Method
485	Totani, Gianfranco (2); Ranalli, Danilo (1); Durante, Claudia (1); del Pinto, Camilla (1); Quintili, Veronica (1)	Preservation of Medieval Churches damaged by L'Aquila 2009 and Amatrice 2016 earthquakes: Non-Destructive Techniques in integrated approach.
486	Boukham, Ali; BARRAS, Jordan; Marmonier, Maxance; Leymarie, Nicolas	Addressing uncertainties in material parameters for nuclear weld imaging by the development of an adaptive algorithm
487	Torregrossa, Salvatore Gabriele (1); Molica Nardo, Rosario (1); Campanella, Davide (2)	TFM-PCI COMBINATION: A NEW FRONTIER IN ULTRASONIC IMAGING
488	Barras, Jordan; Dorval, Vincent; Leymarie, Nicolas; Imperiale, Alexandre; Demaldent, Edouard	Characterization of microstructured steels: from bulk waves to guided waves radiation
489	tranca, teodor (1); tranca, mircea (2); zeman, raimund (3); ardeleanu, cesar (4)	Applications of AI in non-destructive examinations
490	ITHURRALDE, Guillaume (1); METAYER, Patrick (2); SAYEH, Mohamed (3)	Inspections after blending-out scratches on aircraft fuselage made of aluminium alloy
491	Lindgren, Eric	ed Data Analysis for Nondestructive Evaluation
492	Datta, Debasis (1); Mondal, Subhasis (2)	Ultrasonic NDE for Real-Time Monitoring of Vulcanization in Nitrile Butadiene Rubber
493	Ma, Zhiqiang; He, Yonghui; Peng, Tiegeng	AIFI-CCFM-Enhanced MogaNet for Robust Multi-Scale Steel Surface Defect Detection
494	Holmberg, Jonas (1); Lundin, Per (2); Wendel, Johan (1)	Non-destructive characterization using Barkhausen noise to measure residual stresses of induction hardened steel components
495	Wang, Xinyan; Zhang, Chao; Fu, Xin; Wang, Jingzhao; Guo, Peiwen; Zhang, Zhiwei; Yao, Liyang	Material characterization of additively manufactured aluminum alloy using ultrasonic nondestructive approach
496	Demaldent, Edouard (1); Imperiale, Alexandre (1); Recoquilly, Arnaud (1); Calmon, Pierre (1); Rautureau, Aurélien (2); Swindell, Paul (3)	Consolidating reliability of guided wave SHM through simulation: application on a bolted panel with static load

497	Chinta, Prashanth Kumar; Peip, Robert; Falter, Stephan; Spies, Martin; Zappavigna, Giovanni; Parrotta, Lorenzo	Ultrasonic Imaging of Flaws in Thick-Walled Impeller Test Blocks Using FMC-TFM and PWI
498	Jacob, Geo (1); Mhatre, Aditi (1); Merola, Salvatore (2); Grischenko, Evgeny (1); Koschlik, Ann-Kathrin (1); Raddatz, Florian (1); Wende, Gerko (1)	DICONDE for dent digital twins: Data standardization for aircraft structural inspections
499	Murray, Liam (1); Lesthaeghe, Tyler (1); Cherry, Matthew (2); Gillman, Andrew (2); Donagan, Sean (2); Groo, LoriAnne (2)	Developing an Adaptive Testbed for Robotic Inspection
500	Kolkoori, Sanjeevareddy (1); Weise, Thomas (1); Koers, Daniel (1); Jasperneite, Claudia (1); Eggbauer, Franz (2); Lorenz, Friedrich (2)	Advanced Ultrasonic Phased Array Inspection System with PaintBrush Technique for the Gapless Testing of Seamless Steel Pipes
501	Kaderli, Esra (1); Zhou, Lei (1); Slater, Carl (1); Gibson, Ian (2); Davis, Claire (1)	Analysis of Chemical Composition Effect on Electromagnetic Sensor Response During Steel Phase Transformation on the Run Out Table
502	Newson, Matthew; Fisher, Clément	Temperature compensation for guided wave signals using denoising autoencoders
504	Tubrett, Glenn	AI in NDT: Hype, History and Realistic Adoption Pathways
505	Monlleó, Laura (1); Cosarinsky, Guillermo (1); Camacho, Jorge (1); Teixeira, Joanna (2); Lerma, Eneko (2); Martin, Alexander (2); González, Ricardo (3)	Flexible platform for tube-to-sheet welding ultrasound automated inspection
506	Sardellitti, Alessandro (1); Carere, Federico (2); Br, Ahmed Hishman (3); Sangiovanni, Silvia (3); Laracca, Marco (3)	Resonant Eddy Current Sensing for Contactless Monitoring of Lithium-Polymer Cells
507	Daga, Alessandro Paolo; Garibaldi, Luigi; Canova, Aldo	Experimental Evaluation of Magnetic Flux Leakage for Railway Non-Destructive Testing
508	Nasri, Hamza (1,2); Riahi, Jamel (1,2); Vergura, Silvano (1)	Opportunities and Criticalities in Infrared Inspection of Photovoltaic Modules by UAVs
509	Gaal, Mate; Solodov, Dmitry; Nazari, Narges	Applications of micro-hollow cathode as a transmitter for air-coupled ultrasonic testing
510	Dejnabadi, Hooman	Eddy Current Scanner for Non-Destructive Case Depth Evaluation of Induction Hardened Axle Bars and Stem Shafts
511	Soares, Iane de A. (1); Brandão, Ana Carolina P. S. (1); Neves, Thiago T. M. (1); Nogueira Jr., Laudemiro (2); Eckstein, Carlos B. (2); de Almeida, Luiz H. (1); Pereira, Gabriela R. (1)	Detection of microstructural changes resulting from temperature surges in HP steel tubes from steam reforming furnaces
512	Ohara, Yoshikazu (1); Fujikawa, Yuto (1); Sugi, Taiyo (1); Hibi, Atsuhiko (2); Miyamoto, Mitsuru (2); Okamura, Takeyuki (2); Suzuma, Toshiyuki (2)	High-resolution 3D ultrasonic imaging of defects with various shapes using piezoelectric and laser ultrasonic system (PLUS)
513	Carboni, Michele (1); Madkouri, Omar (1); Previtali, Barbara (1); Bruno, Geoffrey (2); Calefati, Paolo (3)	Non-Destructive Thickness Estimation of Extreme High-Speed Laser Cladding Coatings on Brake Discs Using Eddy Current and Photothermal Techniques
514	Dejnabadi, Hooman	Acoustic Resonance Testing (ARS/ARI) for Non-Destructive Evaluation of Cast and Advanced Manufactured Metal Components
515	Distefano, Fabio (1); Ricciardi, Carlotta (1); Giunta, Matteo (2); Epasto, Gabriella (1)	A new methodology for deformation assessment of porous acetabular cups through digital image correlation technique

516	Leinenbach, Frank (1); Ardic, Cemil Emre (1); Panchal, Dharma (1); Römer, Florian (1,2)	Connecting AAS and LLMs for Controlling NDT Devices
517	Leinenbach, Frank (1); Vrana, Johannes (2); Engel, Thomas (3); Eichstädt, Sascha (4); Melzer, Michael (5)	DX-Schema – Standardized modular document system for a “digital-first” quality infrastructure
518	Leuchs, Sven; Krebs, Christian	Millimeter Wave Radar Technology for NDT applications
519	Leuchs, Sven; Krebs, Christian	Sub-THz Radar Line Camera For Inline NDT Applications
521	Neves, Thiago T. M. (1,2); Lima, Marcella Grosso (2); Siqueira, Natalie C. (1); Althoff, Heloisa (3); Braga, Daniel (4); Casacão, João Pedro M. (4); Camerini, Cesar G. (1,2); Pereira, Gabriela R. (1,2)	Machine Learning-Based Non-Destructive Evaluation of HDPE Lining Integrity from Ultrasonic Signal Features.
522	Carere, Federico (1); Sardellitti, Alessandro (2); Sangiovanni, Silvia (3); Laracca, Marco (3)	Innovative Eddy Current Method and Probe for Detecting Defects in Any Orientation
523	Carere, Federico (1); Sardellitti, Alessandro (2); Br, Ahmed Hisham (3); Sangiovanni, Silvia (3); Laracca, Marco (3)	An Innovative Non-Invasive Method for State of Charge Estimation in Lead-Acid cells via Eddy Current Sensing
524	Sardellitti, Alessandro (1); Mottola, Vincenzo (2); Milano, Filippo (2); Ferrigno, Luigi (2); Tamburrino, Antonello (2); Laracca, Marco (3)	Simultaneous Estimation of Multiple Parameters of Metallic Samples via Eddy Current Testing
525	Sardellitti, Alessandro (1); Laracca, Marco (2); D'aguanno, Angelo (2); Mottola, Vincenzo (3); Milano, Filippo (3); Ferrigno, Luigi (3); Tamburrino, Antonello (3)	An Innovative ECT method for Advanced Corrosion Detection and Characterization
526	Nichita, Alexandru; Cegla, Frederic	Factors Influencing Corrosion Rate Estimations focusing on Image Stitching on Ultrasound Data
527	Kim, Jinyoung; Kang, Jaemo; Lee, Sungyeol; Kong, Myungsik; Jeong, Woncheol	Integrated UAV-Based Surface Curvature Analysis and Intelligent Compaction Monitoring for Nondestructive Evaluation of Road Embankment Quality
528	Moix Bonet, Maria (1); Behrens, Tim (1); Eckstein, Benjamin (2); Schmidt, Daniel (1); Wierach, Peter (1)	Integration of a Guided Wave-based SHM System in a full-scale Structural Test
531	Nithimethaporn, Nicharin (1); Hashimoto, Katsufumi (1); Iwasaki, Makoto (1); Inuma, Riko (1); Mitsuya, Hiroyuki (2)	Development of a MEMS Energy-Harvesting Sensor for Corrosion Monitoring in RC Infrastructure.
532	Lee, Jungwan (1); Han, Seong-Hyeon (2); Kim, Jung-soo (1); Kim, Sang-woo (1); Kim, Jinsu (1); Yi, Jin Woo (1); Um, Moon-kwang (1)	A Novel Method of Manufacturing Standard Void Specimens for Non-Destructive Testing of Carbon Fiber Reinforced Plastic via Resin Film Infusion Process
533	Rosafio, Matteo; Sallemi, Damiano; Del Giorgio, Mauro; Buzzella, Tiziano; Sarti, Marco	Non-Destructive residual stress measurement in railway wheels by using ultrasound
534	Hillman, Paul; Maes, Guy; Poirier, Jérôme	Comparison of TFM Inspection Techniques with FMC and PWI Firing for Stainless Steel and Dissimilar Metal Welds
535	Lee, Yonghee (1); Oh, Yong Suk (1,2); Park, Juyeop (3,4); Kang, Donghoon (3)	Development of Lamb Wave and CNN-Integrated Damage Identifier for GFRP Composites

536	Marasco, Nicola (1); Verdino, Stefano (1); Vignati, Enrico (2); Del forno, Erik (3); Tonali, Dario (4); D'amico, Riccardo (5)	Comparative Analysis of Non-Destructive Methods for Determining the Thickness of Welding Overlay (Cladding) in Alloy 625 and AISI 316
537	Marasco, Nicola (1); Verdino, Stefano (1); Vignati, Enrico (2); Del forno, Erik (3); Tonali, Dario (4); D'amico, Riccardo (5)	Magnetic Testing of coated components with high Dry Film Thickness (> 50 µm) using AC and DC Electromagnetic Yokes
539	Lima, Marcella Grosso (1); Neves, Thiago T. M. (2); Althoff, Heloisa (3); Braga, Daniel (4); Casacão, João Pedro M. (4); Camerini, Cesar G. (1,2); Pereira, Gabriela R. (1,2)	Development of an ultrasonic inspection tool for the evaluation and monitoring offshore pipelines with internal HDPE coating
540	Daga, Alessandro Paolo; Fasana, Alessandro; Garibaldi, Luigi; Gerbino, Marco; Viale, Luca	Advanced Multivariate Anomaly Detection for Wind Turbines Using SCADA Data and Machine Learning
541	Hillman, Paul; Giguere, Dominic; Poirier, Jerome	Democratising Advanced UT: A Workflow Centric Approach for NDT 4.0
542	Sandon, Stefano (1); Ballestra, Matteo (1); Ramella, Giovanni Federico (2); Zanni, Valentina (3); Ciancio, Romano (4)	Advanced Diagnostic Inspection Techniques Supporting Engineering Assessments
543	SANTORO, FRANCESCO (1); SPINOSO, SALVATORE (2); INFORTUNA, PAOLO (2)	From Compliance to Prognostics: A Proposal for a New Regulatory Framework Based on NDE 4.0 and Historical Failure Data
544	Wilson, John (1); Jolfaei, Mohsen (2); Fletcher, Adam (1); Zhou, Lei (2); Slater, Carl (2); Davis, Claire (2); Peyton, Anthony (1)	Ceramic Coil Design for High Temperature EM Measurements in a Differential Scanning Calorimeter
545	Mook, Gerhard; Simonin, Yury	EddyWeb – One for All!
546	Autret, Awen (1); Nguyen, Duy (1); Helmerking, Paul (2); Suuronen, Jussi-Petteri (2); Hesse, Bernhard (2); Pulikan, Shyam (3); Giacomelli, Renan (4); reis de Ascencao, Gustavo (4)	AIQuAM3D – Embedded Artificial Intelligence for Quality Assurance in Additive Manufacturing and for Advanced 3D Material Characterisation
548	Hillman, Paul; Richard, Daniel; Berlanger, Johan; Marois, Dominic	Software assisted analysis for AUT data of pipeline girth welds
550	Turcu, Florin (1); Cabirol, Benoit (2); Wendorf, Justin (3); Maclean, Alan (4)	Guidelines for selecting 2D Matrix PA Probe Configuration for weld inspection: A parametric study
551	Baradarani, Aryaz (1,2,3); Shapoori, Kiyanoosh (1,3); Farhangfar, Saghar (1); Malyarenko, Eugene (1,3); Gelovani, Juri G. (1,3); Maev, Roman Gr. (1,2,3)	Hybrid Multiscale Attention-Based Super-Resolution for Real-Time Transcranial Ultrasound
552	Napoli, Alessia Francesca; Marchetti, Emanuele	Use GPR analysis for diagnostic of mural paintings.
553	Zhang, Zhiwei; Wang, Jingzhao; Zhang, Chao; Wang, Xinyan; Chai, Xuwu; Gao, Jingyuan; Liu, Xiaotong	Lightweight Super-Resolution Enhanced YOLOv8 for Improving Consistency in Radiographic Defect Detection of Titanium Alloy Weld Seams
554	Viale, Luca; Daga, Alessandro Paolo; Fasana, Alessandro; Garibaldi, Luigi	A Comprehensive Framework for Pyroshock Testing of Aerospace Equipment

556	Aghadavoudi Jolfaei, Mohsen (1); Wilson, John (2); Zhou, Lei (1); Slater, Carl (1); Davis, Claire (1); Peyton, Anthony (2)	Enhancing Commercial Differential Scanning Calorimetry (DSC) with Embedded Electromagnetic Sensing for In-Situ Monitoring of Tempering Martensite
557	LUO, Jiawei (1,2); Xiao, Yongshun (1,2)	Development of automated CT performance testing system and algorithm reliability optimization
558	Lello de Almeida, André; Lowe, Michael J. S.; Lan, Bo	Characterisation of critical microstructures in metals using shear ultrasound
559	Heckel, Thomas; Homann, Tobias; Hassenstein, Christian; Bake, Friedrich	Robot-based immersion ultrasonic testing using adapted TFM/FMC
561	Schmitz, Kevin (1); Römer, Florian (1,2); Heinrich, Matthias (1); Ardic, Cemil Emre (1); Rabung, Madalina (1); Martelli, Samuele (3)	Deep Learning Method for Defect Detection for Industrial Robot-based Magnetic Particle Inspection
562	lauro, marco; bettoni, fabio; fornari, francesco	Criticality criteria for penstocks in hydroelectric power plants: the importance of non-destructive testing within a component evaluation process
563	Odermatt, Marcel; Sottas, Arnaud	Beyond the HP/11 Reference: Architectural Evolution of Minifocus X-ray Sources for Future NDT
564	Piazza, Francesco; Di Liddo, Enzo	Influence of the surface finish of a metal bar related to the ultrasonic surface resolution and the measurement of its roughness
565	Würschig, Thomas; Breidenbach, Christof; Chinta, Prashanth Kumar; Falter, Stephan; Ininger, Jörg; Sturm, Christian	Advanced Phased-Array methods for the automated SAW weld inspection with wheel probes
566	Osorio, Thiago	Fostering Collaboration and Enabling Development in AI4NDE: Available Opportunities and Activities
567	Osorio, Thiago	Human Factors and AI for NDE
568	Osorio, Thiago	Deployment of AI-Assisted Ultrasonic Inspections in the Nuclear Power Industry
569	Panza, Simone	Technological challenges in drone based NDT contact inspections
570	LEE, SUNGYEOL; KANG, JAEMO; KIM, JINYOUNG; KONG, MYEONGSIK	AI-Assisted Predictive NDT for Identifying High-Risk Zones in District Heating Pipelines
571	LEE, SUNGYEOL; KANG, JAEMO; KIM, JINYOUNG; KONG, MYEONGSIK	AI-Assisted Attribute-Based Screening Framework for Ground-Subsidence Risk Using Underground Utility Information
572	Nam, Hyeonwoo (1); Park, Chan Wook (1); Choi, Wonjae (1,2)	Fully Non-Contact ACUT-Based Crack Depth Evaluation Using Crack-Guided Leaky Rayleigh Modes
573	Brom, Jaroslav (1); Nebel, Roman (2); Hlaváč, Zbyněk (1)	Possibilities of inspections of NPP tanks and containment liners
574	Cadelano, Gianluca (1); Bortolin, Alessandro (1); Ferrarini, Giovanni (2); Volinia, Monica (3); Giroto, Mario (3)	Methodology for monitoring cracking in historical wattle-and-daub ceiling slabs using Infrared Thermography
575	Caslli, Arber; Gianneo, Andrea	Eddy Current In-Situ Monitoring for Process and Quality Assessment of Additive Manufacturing (AM) Laser Powder Bed Fusion (L-PBF)
576	Gianneo, Andrea	Film Replacement in Radiographic Testing Case Studies from Aerospace Applications
577	Römer, Florian (1); Rabe, Ute (1); Werft, Lukas (2); Pahl, Barbara (2); Kallmayer, Christine (2); Friebe, Alex (3); Gebhardt, Sylvia (3); Neubert, Holger (3)	Handheld ultrasound inspection system for position-resolved 3D imaging on arbitrary surfaces
578	Corti, Giovanni (1); Rocchi, Claudio (2); Turla, Fabio (3); Vicat, Francois (4)	Evaluation of Eddy Current Testing Capabilities for Detecting Surface Flaws in Axles at the Manufacturing Stage
579	Vrana, Johannes (1); Schaeffers, Daniel (2); Deutsch, Wolfram (2)	Implementation of DICONDE for the Storage of Ultrasonic Waveform Data: A Core Enabler for NDE 4.0

580	Gourakani, Maedeh (1,2); Mineo, Carmelo (2); Cerniglia, Donatella (1); Bertazzo, Andrea (3); Tiso, Federica (3); Avallone, Giovanni (3)	Defect Classification in Wire Arc Additive Manufacturing via a Semi-Supervised Teacher–Student Model
581	Cifuentes, Angel; Muniategui, Ander; Jaime-Barquero, Edurne; Gorostegi-Colinas, Eider	Industrial Applications Of Inductive Thermography for Non-Destructive Testing In The Automotive Sector
582	Rudinger, Florian (1); Wallner, Martin (2); Reitinger, Bernhard (1)	Smart Contactless Nonlinear Ultrasound Testing – Research With Opto-Acoustical Arbitrary Waveform Excitation
583	Jasiuniene, Elena; Samaitis, Vyktintas	Feature-Based Machine Learning Approach for Adhesive Joint Integrity Assessment
584	LABOURDETTE, Matilde; DROSSON, Rémy; GOURSOLLE, Thomas	Pioneering Turbine Blade Inspection: Inductive Thermography as a Game-Changing Alternative to Dye Penetrant Testing
585	Gondrom-Linke, Sven; Ramos, Tiago	Fully autonomous defect detection in 3D-CT data using the example of 3D metal printing.
586	Qesson, Benoit (1); Gonzalez Jimenez, Alvaro (1); Schertino, Lorenzo (2); Zandi, Marie (2); Piras, Daniele (3); de Jong, Wim (2); Cheng, Lun (2); Jansen, Rob (2); van Neer, Paul (1)	Feasibility of a scalable all-optical network architecture for non-destructive testing of composites
587	Pandarese, Giuseppe (1); Forlano, Simone (1); Calcagni, Maria Teresa (1); Fredde, Alessia (1,2); Monni, Francesco (1); Quagliarini, Enrico (1); Revel, Gian Marco (1)	Early-Stage Structural Behavior Assessment Using Digital Image Correlation
588	Dominguez-Macaya, Ander (1); Galarza, Nekane (1); Olaizola, Jon (2); Abete, Jose Manuel (2)	Applicability of Air-Coupled Rayleigh Waves for Inspection of As-Printed BAAM Components
589	Duarte Pinto, Serge (1); Bongrand, Arthur (1); Bonnet, Olivier (1); Dalleau, Julie (1); David, Anthony (2); Gardell, Sean (1); Kadionik, Johann (2); Merlin, Olivier (1); Pasquale, David (1); Reyes, Juan (2); Ritzau, Steve (1); Rizzo, Axel (1); Robert, Florian (2); Tipikin, Dmitriy (1); Toussaint, Alexis (1); van Steenbergen, Vincent (2)	From Reactor to Lab: Scaling Neutron Radiography for Industrial NDT Applications
591	Xiang, Kevin; Pinier, Ludovic	PAUT integrated process for the examination of pipe fitting transition
593	Cristina, Laura (1); Cocen, Ocson (1,2); Azad, Seren (3); Mannes, David (3); Kaestner, Anders (3); Brambilla, Laura (1)	Neutron and X-ray Tomography for Non-destructive Characterisation of Archaeological Iron Artefacts and Assessment of Conservation Treatment
594	Meere, Bas; Heijne, Rainier; Bondarev, Egor; Torta, Elena; Chanfreat, Paula; Antunes, Duarte	Pose-Informed X-ray Image Deblurring for Drone-Based Wind Turbine Inspection
595	Gochnauer, Larry; Carnevale, Dan; Patel, Yogin	Displaying Shear Wave Sound Propagation For Conventional Ultrasonic Inspection
596	Larocca, Camilla Bahia (1); Bogomolov, Denis (1); Prokofyev, Mikhail (2); Proyer, Armin (3); Marzani, Alessandro (1); De Marchi, Luca (1)	Acoustic Emission Monitoring of Corrosion under Thermal Fluctuations

597	CLAUSSE, Bastien (1); PACALIS, Adam (1); FOUCHER, Fabrice (1); WICK, Adam (2); BOULWARE, Paul (3); DITTMAN, Eric (3); LOZEV, Mark (4)	Austenitic Welds Phased Array Ultrasonic Inspection Modeling and MAPoD Study
598	Kwak, Dongryul; KIM, Younglae; Jee, Donghyun	Development of PAUT Technique for Far-Side Examination of Stainless-Steel Piping Welds in NPPs
599	Conniffe, Daniel (1); Zhu, Ruoxuan (1); Fletcher, Adam (1); Peyton, Anthony (1); Skelton, Jim (2)	Augmenting NDT: How XR Supports Data Acquisition, Interpretation, and Reporting
600	Conniffe, Daniel (1); Fletcher, Adam (1); Peyton, Anthony (1); Skelton, Jim (2)	Assessing the Accuracy and Precision of XR Tracking for NDT Inspection
601	Tefera, Yonas Teodros (1); Shaaban, Mohamad (1); Gao, Penggang (1); Mennuti, Canio (2); Caldwell, Darwin (1); Deshpande, Nikhil (3); Ortiz, Jesus (1)	Towards an Immersive Digital Twin Based Robotic Inspection Framework for Confined Spaces
602	Yang, Jingyuan (1); Ma, Qiuping (2); Tian, Guiyun (3); Camerini, Cesar (4); Yi, Qiuji (1)	Lift-off Trajectory Analysis for Eddy Current Detection of Millimetre-Scale Cracks in Curved Geometries
603	Kim, Younglae; Kwak, Dongryul	Detection of Axial Cracks in Stainless Steel Welds Using PAUT Techniques
604	NGUYEN, THI HAI HONG (1); WU, HARRY (2)	Non-Destructive Evaluation of Wood Properties on Standing Trees for Operational Tree Breeding
605	Park, Kwang-Yeun; Lee, Joo-Hyung; Joh, Changbin; Choi, Ji-Young; Kwahk, Imjong	A Feasibility Study on MBN-Based Stress Evaluation of Cable-Based Bridges
606	Barbieri, Alessia (1); Monti, Franco (2); De Angelis, Simona (1); Turconi, Mario (2)	Comparative Evaluation of Ultrasonic Techniques for the Inspection of Aeronautical Sandwich Composites
607	Pavignano, Martino (1); Volinia, Monica (1); Cadelano, Gianluca (2); Giroto, Mario (1); Bocconcino, Maurizio Marco (3); Vozzola, Mariapaola (3); Zich, Ursula (1)	Wooden academic heritage preservation by low-cost digital survey and thermographic analysis
608	Sakhabiev, Igor (1); Li, Maolin (1); Cho, Younho (2)	Hybrid Data Fusion for Ultrasonic Guided Wave Tomography of Containment Liner Plates
609	Doubek, Ondrej	From Magnetic Particles to Eddy Current Inspection: How to Transform Surface Inspection
611	Žbánek, Petr	Fully Automated Ultrasonic Testing of Bearing Rings for Railway Applications
612	Žbánek, Petr	Advanced Methodology of Ultrasonic Testing (UT/PA) of Thin-Walled Tubes: Replacement of Radiographic Inspection and Efficiency Improvement of NDT Processes
613	Salač, Radek	Advanced Automated PAUT Systems Utilizing Special Immersion Testing Techniques
614	Salač, Radek	Advanced Automated Ultrasonic Systems Utilizing Modern Technologies
615	Guyon, Robin; Newson, Matthew; Roué, David; Gervais, Auguste; Miorelli, Roberto; Fisher, Clément	Embedded deep learning system for reliable operator support in TFM-based weld inspection
616	Vergura, Silvano	The Evolution and Intelligence of Imaging in NDT: From Visual Inspection to AI-Driven Diagnostics
617	FERNANDEZ, Roman (1); TOURON, Anthony (2)	Numerical Modelling of Photon-Counting Detectors for Industrial Radiography Applications
618	Gaffney, James (1); Beckingham, Thomas (2); Colquitt, Daniel (1); Daniels, Will (1,3); Haslinger, Stewart (1)	Optimising Synthetic Data for Machine Learning Applications on Surface Breaking Thermal Fatigue Cracks
619	Miele, Alessio; Milano, Filippo; Molinara, Mario; Ferrigno, Luigi	An improved EIS for battery state estimation: a non-invasive measurement approach

620	VASILE, ROBERTA (1); IOVENE, RAFFAELE (1); DI GIACOMO, MARCELLO (2); CHENDI, MARINO (2)	Integrity inspection of a thermoelectric power plant and elimination of dissimilar metal welds
621	Cisse, Cheikh. M. B. (1,2); Miorelli, Roberto (1); Aumeunier, Marie-Hélène (2); Juven, Alexis (2)	Leveraging Physics-Constraint Encoder-Decoder Models and Masked Autoencoders for Infrared Temperature Prediction in Tokamaks
622	Miorelli, Roberto (1); Roue, David (1); Robert, Sébastien (2)	Deep learning based automatic analysis of multimodal TFM data in elbow-tube weld junctions in nuclear
623	Salplachta, Jakub (1); Stravova, Zuzana (1); Ballai, Gergő (2); Sebok, Dániel (2); Kukovecz, Ákos (2)	Observation of electrolyte dynamics in Li-ion batteries via In-situ Computed Tomography
624	Böttger, David (1); Gabi, Yasmine (2)	Simple approach for testing distance detection during 3MA-II lift-off measurements on moving components based on PCA and SVM
626	Dell'Avvocato, Giuseppe (1); Pocetta, Veronica (1); Bison, Paolo (2); Rossi, Stefano (2); Galiotti, Umberto (3); Ferrarini, Giovanni (2)	Towards non-destructive prediction of porosity-induced mechanical property variations in L-PBF AISI10Mg via pulsed laser thermography
627	Betancur, Julian (1); Fragnaud, Cedric (2); Roux, Stephane (2)	Selection of optimal projection angles for the measurement of wall thicknesses in turbine blades by few-view X-rays
628	Mathiszik, Christian; Koal, Johannes; Schmale, Hans Christian; Füssel, Uwe	Non-Destructive Testing of Resistance Spot Welds by Magnetic Evaluation
629	Gonzalez Jimenez, Alvaro (1); Quesson, Benoit (1); Scherino, Lorenzo (2); Zandi, Marie (2); Piras, Daniele (3); de Jong, Wim (2); Cheng, Lun (2); Jansen, Rob (2); van Neer, Paul (1)	Improved sensitivity fiber optic readout system based on Pi-Shifted Fibre Bragg Gratings and Mode Locked Lasers for composite structures inspection
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631	Hoemske, Benjamin; Chinta, Prashanth; Deters, Christoph; Buechler, Johannes; Falter, Stephan	Highly Integrated Solution for Corrosion Testing in the Field
632	Bergamini, Fabio (1); Fava, Alessandra (1); Cognini, Francesco (1); Giuseppe, Barbieri (1); Tati, Angelo (1); Rossi, Paolo (2); You, Jeong-Ha (3)	Non-Destructive Evaluation of Rotary Friction Welded CuCrZr-AISI 316 Joints for Fusion Applications
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635	Lachance, François	How 3D scanner can improve and accelerate Dent assessment simulation
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647	Doshi, Karan	Human-Technology Synergy in NDT: Boosting Reliability in Safety-Critical Sectors
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649	Zavadil, Tomas	Transferring Qualification acc. to EN 4179 / NAS 410 qualification standards
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652	Zavadil, Tomas	Implementing Annual Proficiency Review acc. to EN 4179 / NAS 410 Qualification Standards
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654	Bruno, Angelo; Miniello, Pasquale	TFM inspection in lieu of RT on welds of thin WT pipes in stainless steel
655	Aydin, Ibrahim (1); Gür, C. Hakan (2)	Ultrasonic Velocity-Based Non-Destructive Characterization of Heat-Treated Additively Manufactured 18Ni300 Maraging Steel
656	Campori, Giorgia (1); Di Vita, Calogero (1); Esposito, Diego (1); Insana, Daniele (1); Mucciarone, Antonio (1); Pozzi, Anna Marta (2); Raneda, Luca (1); Testa, Davide (3)	Analysis of Degradation Mechanisms in the Deck Slab of the Lussari Viaduct Using Non-Destructive Testing: A Ground Penetrating Radar Approach
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658	Magni, Alessandro; Casaril, Marco	Applications of Pulsed Eddy Current Testing (PECT) in thickness measurements on components with coatings or insulation
659	Koren, Zvi	Nano-Destructive Chromatographic Analyses of Cultural Heritage Royal Purple Dyeings
660	Schmitz, Kevin; Schwender, Thomas	Re-Machine – Multimodal inspection of wind-turbine bolts for reusability
661	MARTINEZ-OÑA, Rafael	NDE 4.0 and Artificial Intelligence: Partnership and Evolution of AI Applications
662	D'Accardi, Ester (1); Dell'Avvocato, Giuseppe (2); Palumbo, Davide (1); Galiotti, Umberto (1); Oswald-Tranta, Beate (3)	Crack characterization in ferromagnetic steel using inductive thermography
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664	ABIRIZK, Ralph	Improving Image Quality in Ultrasonic Inspection for complex material Using Custom Emission
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669	Magni, Alessandro; Casaril, Marco; Corsi, Luigi	From Data Acquisition to Reliable Defect Characterization: Industrial Applications of FMC, TFM and PCI
670	Simmert, Steve; Braun, Dominik; Schanz, Feli; Jakobi, Ingmar	Segmentation-Model-Based Detection of Hairline Cracks in Forged Steel Components
671	Hirsch, Philipp Daniel; Kunji Purayil, Sruthi Krishna; Scheuschner, Nils; Lecompagnon, Julien; Krankenhagen, Rainer; Ziegler, Mathias	Emissivity Compensation for Thermographic Inspection of Grey Cast Iron Components
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675	Troja, Samuele (1); Volinia, Monica (2); Giroto, Mario (2)	A Multi-scalar NDT Workflow for the Diagnostic Knowledge Project of Stratified Architectural Heritage
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677	Esposito, Diego; Campori, Giorgia; Di Vita, Calogero Pio; Insana, Daniele; Mucciarone, Antonio; Ranetta, Luca	Diagnostic Approaches for Evaluating Structural Improvement Interventions on Arch Bridges- Case study "Pasquarella" Bridge
678	Dörn, Roman; Akkas, Can	Crack Luminescence - The new Method of crackdetection
679	Pomo, Marina (1); Iturriaga Sauco, Emma Selene Ixchel (2)	Human Factor and Communication Processes in Technical Training: A Systemic Approach to Adult Learning in Non-Destructive Testing
680	Tornero Martín, Pascual (1); García Pérez, Alberto (1); de la Escalera Hueso, Arturo (2); Montoya Rodríguez, David (2); Nicuesa Usandizaga, Aimar (1)	Study of training strategies to improve performance for defect detection in aeronautical castings X-ray images
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685	Popovych, Olga; Lai, Kher Wei; Menendez Orellana, Ana; Grosse, Christian	Automated Damage Detection in Carbon-Fiber Reinforced Polymers Using Air-Coupled Ultrasound and Neural Networks
686	Zito, Rocco (1); Lecompagnon, Julien (2); Laureti, Stefano (1); Ziegler, Mathias (2); Ricci, Marco (1)	Exploiting Mismatched Filter for Barker Code Pulse Compression Thermography
687	Lutter, Sven; Schneibel, Gerald	New Concepts for Automated Railway Track Inspection

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690	Garibaldi, Luigi; Fallahi, Nasim	A comprehensive technical review of the non-destructive methods for rail inspection
691	Barton, Sebastian (1); Gansel, René (1); Feld, Lea (1); Collmann, Mareike (2); Maier, Hans Jürgen (1)	Non-destructive determination of crack size and crack growth in butt welds of wind turbines: AE, PAUT and ET in vibration fatigue tests
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695	Lewandowski, Marcin; Walczak, Mateusz; Jarosik, Piotr; Karwat, Piotr	GPU-accelerated Phased-Array Ultrasound Scanner for Integration of AI/ML methods
696	yang, geng; liu, yi; gao, bin; liu, dong	Stress Detection System Based on Magnetic Coupling Self-Resonant Frequency Sensing
698	Ramaniraka, Manda	ITZ characterization on thermally damaged glass beads concrete by diffuse ultrasound
699	Barbera, Riccardo (1); Daga, Alessandro Paolo (1); Garibaldi, Luigi (1); Cuvato, Damiano (2); Bonjean, Manuel (2); Sannolo, Antonino (2); Artaz, Lorenzo (2)	Grey-Box Digital Twin of a Pelton Hydropower Unit: Characterisation for Diagnostic Applications
700	Monza, Paola (1,2)	Muonic Atom X-Ray Emission Spectroscopy (μ XES) for Cultural Heritage: The INFN-CHNet experience
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703	Scholle, Greta; Mathiszik, Christian; Hielscher, Franz; Koal, Johannes; Schmale, Hans Christian	Non-destructive Characterization of the Curing Process of Thick-Film Adhesive Bonds using Transverse Ultrasonic Waves
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706	Sanliturk, Oguzhan; Schmitz, Kevin	Self Learning Anomaly Detection on a Multidimensional Feature Space
707	Senck, Sascha; Nepelius, Lukas; Weinberger, Patrick; Höglinger-Rauscher, Markus; Glinz, Jonathan	Super-Resolution Microcomputed Tomography for Porous Aluminium Foams
709	Bertovic, Marija (1); Berretta, Sophie (2); Trela, Christiane (3)	Recommendations for the Human-Centred Implementation and Acceptance of Advanced Technologies in Non-Destructive Testing
710	SHAABANI, Shilan (1); MORA, Pierric (1); SHOKOUHI, Parisa (2); DURAND, Olivier (1); ABRAHAM, Odile (1)	Nonlinear Coda Wave Interferometry: Preliminary results into using ambient noise as pump

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716	WU, XinJun; Gong, JiaWei; Zhai, FangHao; Zhang, WenLong	Principle and Instrument of Corrosion Detection by Electromagnetic Imaging under the Concrete Overlay
717	Šnirer, Miroslav; Backo, Patrik; Salač, Radek	Challenges of remote camera MPI/FPI inspections
720	Affum, Hannah Asamoah; Seminario, Gerardo Maghella; Liu, Shangyuan	Strengthening Global Capacities in Non-Destructive Testing for Industry, Cultural Heritage, Civil Engineering and Disaster Recovery: Recent Programmatic Developments at the IAEA
721	Aloisi, Valentina; Tschechne, Stephan; Costa-Santos, Edson; Wojek, Christian	X-Ray Digital Radiography and Computed Tomography: investigation of defect detection capabilities with conventional and Artificial Intelligence solutions- a case study in the Aerospace Industry
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723	Saulais, Herve (1); Thibault, Cyril (2); Wiatrek, Andrzej (3); Braconnier, Dominique (1)	A Modular Phased Array–Based In-Line UT System Enabling High-Speed, High-Reliability NDT
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725	Rhéaume, Richard	Training 3D AI models for PAUT: Performance, Data Needs, and Deployment Considerations
726	Maillard, Samuel (1); Frouart, Jean Nicolas (1); Lasjaunias, Benoit (1); Baillard, André (2); Decultot, Florent (2)	Periodical checks for industrial applications of active thermography
727	Maillard, Samuel; Frouart, Jean Nicolas	First approach of IR camera calibration dedicated to NDT Application
728	Calicchia, Paola (1); Camassa, Antonio (1); Spadafora, Giovanna (2); Mazzoletti, Giulia (3); Foppoli, Dario (3)	Integration of non-destructive methods for investigating the conservation state of Fort Monte Antenne in Rome
729	Thibault, Cyril (1); Bolten, Jorn (2); Deutsch, Wolfram (2); Braconnier, Dominique (3)	In-Line Inspection of Hex Bars with Advanced Ultrasonic Phased Arrays
730	Lahens, Thomas (1,2); Batsale, Jean-Christophe (1,2); Sommier, Alain (1,2)	Measurement of the thermal resistance of through cracks. A simple method based on flying spot instrumentation
731	Ghalas, Ihssane; Vandoni, Jennifer	Efficient Transformers for X-Ray NDT in limited data scenarios
732	Maillard, Samuel (1); Plouvier, Sylvain (2); Frouart, Jean Nicolas (1); Dahmene, Fethi (1); Gérardin, Benoit (3); Ghibardo, Olivier (4); Schmoor, Thibaut (5); Vinet, Timothée (6)	Active thermography with inductive excitation for grinding burns detection - Application to aircraft landing gear components -

733	AYISAH, Janice Estelle (1,2); LAROUCHE, Nans (1); HUNEAU, Clément (2); BOURGUIGNON, Sébastien (2); IDIER, Jérôme (2); CARCREFF, Ewen (1)	Complex surfaces profilometry by splines estimation
734	Braconnier, Dominique (1); Deutsch, Wolfram (2)	On-Site Calibration Breakthrough for Phased Array UT Systems
736	Reboud, Christophe; Miorelli, Roberto; Touron, Anthony; Leymarie, Nicolas	Physics based synthetic data generation for nondestructive testing applications
737	Turcu, Florin (1); Côté-Vachon2, Raphaël (2)	Assessing the potential of advanced imaging with low frequency Rayleigh waves: from single beam A-scan to TFM and Phase Coherence Imaging
738	Tremblay, Charles; Loffredo, Sergio; Bouchard, Mathieu	Eddy Current Array for Inspecting J-Welds on the Reactor Vessel Head in Nuclear Power Plants
739	Fortunato, Marco; Tati, Angelo; Mirabile Gattia, Daniele	Non-Destructive Tests on DLP-Based 3D-Printed h-BN/Graphite Polymer Composites
740	Zanettini, Silvia (1); Zambelli, Nicola (1); Sarzi-Amadé, Nicola (1); Ferrarini, Paolo (1); Cavaliere, Davide (2); Travaglia, Antonella (3)	In-line X-ray inspection of medium density fiberboard mattress
741	Ziegler, Mathias (1); Aderhold, Jochen (2); Amiel, Stéphane (3); Bouteille, Patrick (4); Dell'Avvocato, Giuseppe (5); Galietti, Umberto (6); Gorostegui Colinas, Eider (7); Huillery, Richard (8); Jakobi, Ingmar (9); Keller, Andreas (10); Maillard, Samuel (11); Mayr, Günther (12); Mund, Malte (13); Müller, Daniel (14); Oswald-Tranta, Beate (15); Straka, Vaclav (16); Svantner, Michal (17)	Shaping the future of thermography: Standardization as a bridge between innovation and application
743	Altenburg, Simon J.; Hilberg, Alec; Walter, Tina; Breese, Philipp Peter	Multi- and Hyperspectral Thermography for Inline Quality Assurance in Metal Additive Manufacturing
744	Lallini, Andrea	INFRASTRUCTURE INSPECTION
745	Cassinelli, Giuseppe; Simino, Andrea	Proactive Technical Monitoring in Local Public Transport companies: practices and future outlooks @ Azienda Trasporti Milanese
747	Bouchard, Mathieu; Théroux, Louis-Daniel; Loffredo, Sergio; Haddad, Alain; Grond, Sergio	Recent advances in orbital weld inspection using Eddy Current Array Testing
748	Baradarani, Aryaz (1,2); Maev, Roman Gr. (1,2)	Reducing Inspection Ambiguity from Degraded A-Scans in Ultrasonic Spot Weld Analysis
749	Yi, Qiuji (1,2); Wang, Dong (3); Tian, GuiYun (2); Zito, Rocco (4); Laureti, Stefano (4); Burgholzer, Peter (5); Ricci, Marco (4)	EPH-iFNO: Self-Evolving Physics-Attention Heads with Fourier Neural Operators for Virtual-Wave Inversion
750	Autret, Awen (1); Gueye, Limamou (1); Nguyen, Duy (1); Terzi, Sofiane (1); KAFTANDJIAN, Valérie (2); BRZUCHACZ, Sébastien (3); Bouvet, Patrick (3); Boudou, Caroline (1); Fayard, Barbara (1)	Logitom-casting: AI powered automated X-ray tomography processing software for quality control
752	Baradarani, Aryaz; Maev, Roman Gr.	Embedded Super-Resolution Framework for Ultrasonic Spot Weld Inspection
753	Terzi, Sofiane; Nguyen, Duy; Neffati, Dajla; Autret, Awen; Fayard, Barbara	AI-Enhanced X-ray Tomography for Quantitative Crack Characterization in Industrial Materials

754	SU, Pincheng; TINARD, Violaine; FRANCOIS, Pierre; FOND, Christophe	Investigation of the changes in the mechanical properties of chloroprene rubber (CR) under thermal oxidation aging by ultrasonic techniques
755	Magalini, Marta (1); Guidorzi, Laura (1,2); Re, Alessandro (1,2); Lo Giudice, Alessandro (1,2)	Provenance Investigation of Cultural Heritage materials with Ion Beam Analysis
756	DELLABIANCIA, Carlo (1); DELLABIANCIA, Mattia (2); CIANCIO, Romano (3)	Application of the etallographic replica investigation technique for the evaluation of the microstructural condition of industrial components - Case Histories
757	Revel, Gian Marco (1); Seferi, Rifat (2); Tati, Angelo (3); Candigliota, Elena (4); Cosoli, Gloria (5); Marghella, Giuseppe (4); Marzo, Anna (4); Mazzarelli, Saverio (6); Tripepi, Concetta (4); Luprano, Vincenza A.M. (6)	BIM oriented Non-Destructive Testing of a reinforced concrete building
758	Aversa, Patrizia (1); Misceo, Monica (2); Di Micco, Antonio (3); Tamburrino, Salvatore (3); Di Biccari, Carla (4); Mangia, Mattia (4); Brai, Emanuela (5); Albanese, Paola Maria (4); Cascione, Valeria (6); Luprano, Vincenza Anna Maria (1); Corallo, Angelo (4)	Integrating NDT results into BIM for Social Housing Renovation: The ReHouse Project methodology
759	Febo, Matteo (1,2); Erdino, Giovanni (1); Francesco, Ciampa (1); Davide, Palumbo (1); Umberto, Galletti (1); Maria, Cinefra (1); Simone, De Carolis (1); Leonardo, Soria (1); Maria Michela, Dell'Anna (3); Maria Stella, Leone (3); Francesca, Derobertis (3); Piero, Mastroilli (3); Mattia, Mele (4); Sebastiano, Parisi (5); Gianmarco, Milan (4,5); Eugeniu, Grabovic (6); Damiano, Rossi (6,7); Maurizia, Seggiani (6); Irene, Anguillesi (6); Enrico, Ciulli (6); Massimiliano, De Agostinis (4); Gianluca, Di Egidio (4); Luca, Lorenzetti (4); Carla, Martini (4); D'Accardi, Ester (1)	Torque Evaluation of Automotive Connecting-Rod Bolts Using Piezoelectric Sensors and Contact Acoustic Nonlinearity Methods
760	Costa, Vinicius L. (1); Kalid, Thiago E. (1); Dário, Matheus F. (1); Prado, Tatiana de A. (1); Pires, Gustavo P. (2); Pipa, Daniel R. (1); Passarin, Thiago A. R. (1)	Suppression of geometrical artifacts from acoustic lenses through low-rank approximation
761	Movahedi, Anahita; Butzhammer, Lorenz; Hausotte, Tino	Position- and direction-dependent 3D spatial resolution evaluation for Computed Tomography using extended Modulation Transfer Function analysis
762	Vasconcellos, Gabriel O.; Dário, Matheus F.; Prado, Tatiana de A.; Pipa, Daniel R.	Deep Learning-Based Spatial Coherence Estimation for Ultrasonic NDT
763	Guarneri, Giovanni A. (1); Pegorini, Vinicius (1); Pipa, Daniel R. (2); Kalid, Thiago E. (2); Prado, Tatiana de A. (2); Pires, Gustavo P. (3); Passarin, Thiago A. R. (2)	mini-auspex: a Python library for ultrasonic data import, post-processing and imaging
764	Zottig, Federico (1); Thibault, Cyril (2)	Advances in Ultrasonic Corrosion Mapping Through Integrated Acquisition Architectures

765	Wang, Fabio Z. Y. (1); Prado, Tatiana de A. (1); Kalid, Thiago E. (1); Pires, Gustavo P. (2); Brante, Glauber (1); Pipa, Daniel R. (1); Passarin, Thiago A. R. (1)	Modeling and removal of electronic crosstalk effects in ultrasound signals by deconvolution
766	alzahrani, salah	Heat Exchanger Tube Inspection's Challenges and Solutions
767	Berretta, Sophie	Navigating Human-AI Tensions in Non-Destructive Testing: A Human-Centered Approach to AI Implementation
768	Kalid, Thiago E. (1); Lazzaretti, André E. (1); Prado, Tatiana de A. (1); Pires, Gustavo P. (2); Pipa, Daniel R. (1); Passarin, Thiago A. R. (1)	Machine learning-driven flaw detection for ultrasonic pipe inspections with acoustic lens
769	Montagnoli, Fabrizio	EN4179:2026 / NAS410 rev.6 - Background and Scenario of the new requirements for Aerospace NDT Personnel Qualification and Certification
770	Ortiz Galindo, Kevin Anthony; Aspilcueta Asencios, Manuel Uriel; Costilla Cruz, Licelly	Vibration Analysis of a Structure with Plan Irregularity Using the Frequency Domain Decomposition Method
771	Díaz Sánchez, Ángeles (1); Peña Caravaca, José P. (2); Arganis Juárez, Carlos R (1); Antuch, Manuel (4); F. Nelson, Pamela (2); Desdín, Luis F. (3); Robles Piedras, Eduardo (1)	Evaluation of the variation in NDT results in reinforcing bars of concrete slabs, subjected to accelerated corrosion processes
772	Dematteis, Matilde (1,2); Marabotto, Miriana (2); Re, Alessandro (1,2); Lo Giudice, Alessandro (1,2); Guidorzi, Laura (1,2); Magalini, Marta (2); Tansella, Francesca (1,2); Garagiola, Chiara (1,2); Britto, Sylvia (3); Ramadhan, Raggi (3); Grazzi, Francesco (4); Elia, Diego (5); Meirano, Valeria (5,6); Sudano, Fabrizio (7); Trunfio, Elena Rita (8); Di Martino, Daniela (9)	Calibration of Bragg Edge Neutron Transmission Analysis and Characterization of Ancient Bronze Mirrors from Magna Graecia
773	Felicetti, Roberto	Assessment of void volume in post-tensioning ducts via the vacuometric technique
774	Longo, Roberto; Diano, Maurizio; Fabiano, Raffaele; Donato, Raffaele; Badolato, Fabio; Cosentini, Anthony	Non-Destructive Testing of Lifting Equipment: Assessing Residual Capacity and Ensuring Operational Safety
775	Drinkwater, Bruce (1); Croxford, Anthony (1); Niu, Xudong (1); Todd, Michael (2)	Performance Evaluation of Ultrasonic Sparse Array Networks – Implications for Robotic Inspection of Large Areas
776	Sun, Erhui (1,2); Mohammad, Abdelkhalick (1); Gameros Madrigal, Andres (2); Axinte, Dragos (1); Norton, Andy (2)	EddyGlove: A Wearable Eddy Current Testing Device for Defect Detection in Confined Environments
777	Zepp, Chris	Time-to-Insight as a Metric for Battery CT Inspection
779	MERLE, Jean-Philippe	Remotely operated inspection of complex surfaces without programming
780	MERLE, Jean-Philippe (1); POGUET, Jérôme (2)	Traceability of Manual NDT scanning not using encoded scanners
781	Brozicevic, Antonio; Hooper, Paul; Lan, Bo	Understanding the Effects of Crystallographic Texture and Pore Morphology on Ultrasound Wave Propagation in Laser Powder Bed Fused 316L Stainless-Steel
782	Martino, Nicole (1); Maser, Ken (2); Birken, Ralf (3); Wendland, Camila (4)	Computational Modeling Parameters to Consider when Reproducing GPR Data as it Applies to Bridge Decks
783	Walter, Julien (1); Beausoleil, Alexandre (1,2); Arès, Olivier (2)	Ultrasonic Probe Mimicking Technique and its Application to Porosity Measurement in Composite Materials
784	Ndiaye, Elhadji Barra (1); Séguin-Charbonneau, Loïc (2); Beausoleil, Alexandre (2); Walter, Julien (3)	Automated Analysis of Ultrasonic Data for Complex CFRP Aerostructures Using Adaptive Segmentation
787	Sharma, Anshul; Caglar, Baris; Dransfeld, Clemens	Weld Quality Assessment in Ultrasonically Welded Thermoplastic Composites using Infrared Thermography

788	Ru, Gaige; Gao, Bin; Ye, Jiale	Non-Destructive Evaluation of Micro-Cracks Using Differential Electromagnetic Focusing Vision
789	Sukprasit, Krit; Nitta, Keisuke; Hashimoto, Katsufumi; Sugiyama, Takafumi	Integrated Non-Destructive Evaluation of Bacteria-Based Self-Healing Concrete
790	Jiao, Daokun; Tang, Qin; Gao, Bin	The Decoupling Mechanism of ECT-EMAT Coupled Signals Governed by Coil Coupling Configuration
791	Lee, Joo-Hyung (1); Jeong, Gyeongyong (2); Cho, Keunhee (1); Choi, Ji-Young (1); Lee, Moon-Que (2); Joh, Changbin (1)	Compact UWB Antenna-Based SFCW Radar with Fast Delay-and-Sum Algorithm for Concrete Scanning
792	Marcucci, Giulia (1,2); Di Martino, Daniela (1); Cucini, Costanza (3); Musa, Maya (4); Riccardi, Maria Pia (4); Scherillo, Antonella (2)	Unlocking hidden material signatures through neutron resonance transmission imaging
793	Andolina, Antonino (1); Bartasaghi, Matteo (2); Molica Nardo, Rosario (3)	Ultrasonic Phased array in lieu of radiography for the periodical in service inspection of an austenitic steel pressure vessel – A case study
794	Oswald-Tranta, Beate; Ehrenberger, Jean-Marie	Finite element simulations and their validation for inductive thermography
795	Aruta, Luigi; Solazzi, Simone; Bonchi, Marco; Biagioni, Stefano; Cuppi, Claudio	Design of a new ultrasonic rotary probe inspection of a drive axle starting from its design
796	Yamamoto, Wataru (1); Ohtake, Yutaka (1); Motoyama, Hiroto (1); Egawa, Satoru (1); Yamaguchi, Gota (2); Mimura, Hidekazu (1,2); Nagai, Yukie (1)	Challenges in Tiled Projection Stitching for Large-Scale Synchrotron CT
798	Castellani, Francesco (1); Astolfi, Davide (2); Canali, Alessandro (1); Daga, Alessandro Paolo (3); Sisinni, Emiliano (2); Flammini, Alessandra (2)	Non-destructive experimental fault diagnosis of wind turbine drivetrain components using tower-base accelerometers
800	Fan, Chengguang; Zhang, Xiaozhen; Jiang, Kunyou; Wu, Zongyu; Chen, Quan; Zhang, Wenlong	Multi-frequency time reversal based super resolution imaging performance studies for ultrasonic Nondestructive Testing
801	Martinez-de-Guerenu, Ane (1,2); Cuenca-Ariza, Mikel (1,2); Aramendi, Iosu (1,2); Iza-Mendia, Amaia (1,2); Jorge-Badiola, Denis (1,2)	Magnetic hysteresis parameters as non-destructive indicators of microstructure in DP600 steel after controlled thermal cycles
802	Won, Soonho (1); Lee, Hak-Sung (2); Schulze, Martin (3); Schulze, Till (3); Heuer, Henning (3)	Integrated Non-Destructive Testing Concept for Type 4 Hydrogen Storage Tanks
803	MacIssac, Michael; Beck, Amanda; Eum, Woohyun; Tran, Charlie; Harley, Joel; Subhash, Ghatu	Physics-Informed Filters for Reconstructing Missing Data in Ultrasonic Guided Wavefields
804	Zhang, Xiaozhen; Fan, Chengguang; Jiang, Kunyou; Wu, Zongyu; Zhao, Yong; Chen, Quan; Zhang, Wenlong	A Novel Method for Fatigue Crack Size Quantification in Spacecraft Structures under Variable Temperature Environment Based on Information Entropy
806	Rudolfova, Marie	Eddy current testing of a carbon fiber blade edge
807	Aranguren, Eneko; Fuente, Raquel	Non-Invasive Characterization of Petrochemical Tanks via IR Thermography, Digital Twins and AI
809	Tene Deffo, Yves (1,2,3); Uchimoto, Tetsuya (1,4); Ducharme, Benjamin (1,2)	Magnetic rotational permeability (MRP) for mechanical stress estimation

810	Zhang, Xiaozhen; Fan, Chengguang; Jiang, Kunyou; Wu, Zongyu; Zhao, Yong; Chen, Quan; Zhang, Wenlong	Quantitative Monitoring Method for Hydrochloric Acid Corrosion Based on Lamb Waves
811	Ducharne, Benjamin (1,2); Mary, Nicolas (1); Achdjian, Hossep (3); Bustillo, Julien (3); Feuillard, Guy (3); Toupin, Jules (3); Tene Deffo, Yves (1,4); Uchimoto, Tetsuya (1,5)	Comparison between an ultrasonic and an electromagnetic metrology for the study of hydrogen embrittlement in steels
812	Bhemani, Nishi; Balasubramanian, Krishnan	Prediction of Grain Orientation from Thermal Maps Using a Data-Driven and AI Approach
813	YELBAY, HASAN İLKER (1); GÜR, CEMİL HAKAN (2)	Non-Destructive Determination of Surface Residual Stresses in Electron Beam Welded AISI 410 Plates using Magnetic Barkhausen Noise Technique
814	Insana, Daniele; Campori, Giorgia; Di Vita, Calogero Pio; Esposito, Diego; Mucciarone, Antonio; Raneda, Luca	Reconstruction of Prestressing and Shear Reinforcement Using the Non-Destructive GPR Technique – Application to a Gerber Beam Structure
815	Tyystjärvi, Topias	The Applicability of Virtual Flaw Data Augmentation across NDE Modalities
816	Por, Gabor	Development and Applications of Scanning Acoustic Microscopy
817	Affanni, Antonio (1); Specogna, Ruben (1); Trevisan, Francesco (1); Tamburrino, Antonello (2)	A Micro EIT Sensor for Process Tomography
818	Yousefi, Mohammadreza; Innocenti, Agnese; Marchetti, Emanuele; Fanti, Riccardo; Pazzi, Veronica	A first Attempt to Invert Microwaves Moisture Data
819	Palazzo, Simone (1); Mottola, Vincenzo (1); Canale Parola, Giovanni (1); Ferrigno, Luigi (1); Sardellitti, Alessandro (2); Tamburrino, Antonello (1); Velardi, Francesco (1); Sanseverino, Annunziata (1)	FPGA-based Non-Destructive Measurement System for Fast and Accurate Estimation of Thickness and Electrical Conductivity of Metallic Plates
820	Martino, Andrea; Breggion, Enrico; Guerra, Francesco; Balletti, Caterina	Multimodal UAV-Based NDE for Cultural Heritage in Safety-Constrained Environments: the Poveglia Island Case Study
821	Nagai, Yukie (1); Imani, Kento (1); Yamamoto, Wataru (1); Ohtake, Yutaka (1); Motoyama, Hiroto (1); Egawa, Satoru (1); Yamaguchi, Gota (2); Mimura, Hidekazu (1,2)	Application of NDT Technologies for Designing Food Textures
822	Unnikrishnakurup, Sreedhar; Kumar, Vinod; Zheng, Jonathan; Sampath, Santhakumar; Tham, Zi Wen; Lei, Zhang; Wei, Siok; Thitsartarn, Warintorn; Ngo, Andrew	Multi-Modal Non-Destructive Evaluation of Lightning Strike Damage in CFRP Composites Using Thermography and X-ray Computed Tomography
823	Fernandez Orozoco, Ramon Salvador (1); Dos Santos, Serge (2)	Advancing a Research Agenda on the Ethical and Human Factors that will be shaping the evolution of AI/ML/DL enhanced NDE processes to task-oriented, domain-specialized foundation models in a context of exponentially accelerated maturing of Critical and Emerging Technologies (CETs)
824	Hussein, Salbiah; Mohamed Ashari, Dr. Zool Hilmi	From Competency Specification to Global Recognition: Designing NDT Certification Assessments Based on National Skills Frameworks
825	Mottola, Vincenzo (1); Sardellitti, Alessandro (2); Milano, Filippo (1); Ferrigno, Luigi (1); Laracca, Marco (3); Tamburrino, Antonello (1)	A general methodology for the identification of invariant features in Eddy Current Testing
826	SHARMA, MANISH (1); BOSE, TANMOY (2)	Fully non-contact local defect resonance based acoustic testing of low velocity impact damage in CFRP laminate

827	Sharma, Manish (1); Bose, Tanmoy (2)	Low velocity impact damage assessment in Foam core GFRP sandwiched composite via Local defect resonance based low power Vibro-thermography
828	DeCorby, Ray (1,2); Scheuer, Kyle (1,2); Chen, Ayden (2); DeCorby, Elizabeth (2)	Non-contact plate measurements using an optomechanical ultrasound microphone
829	Jiang, Kunyou; Fan, Chengguang; Zhang, Xiaozhen; Wu, Zongyu; Zhao, Yong	Fused Ultrasonic Tomography Imaging Technique for Gas-Liquid Distribution in Spacecrafts' Tank Based on RAPID and TFM
830	Jin, Yongchang (1); Cheng, Xiaoying (1); Wu, Zhenyu (2)	Defect Characterization in Pultruded CFRP: A Hybrid Dual-Source Thermography Approach
832	Tornabene, Mattia (1); Russello, Massimiliano (2); Pitarresi, Giuseppe (1)	Online evaluation of ultrasonically welded carbon fiber reinforced thermoplastic laminates by means of infrared vibrothermography
833	Di Martino, Daniela; Marcucci, Giulia; Vigorelli, Luisa	Spreading Non-Destructive Techniques Applied to Cultural Heritage: Initiatives for Schools
834	Golušin, Leonardo Max; Vasić, Darko	Impedance Level-Set Curves in Eddy Current Testing of Conductive Plates under Unknown Coil Tilt
836	Distefano, Fabio; Epasto, Gabriella; Freni, Fabrizio; Montanini, Roberto; Valenti, Mario	Active thermography for quality control and defects detection in PEKK TPMS lattice structures
837	Matarrese, Tiziana (1); Felipe Sesé, Luis Antonio (2); Molina Viedma, Ángel Jesus (2); López-Alba, Elías (3); Díaz Garrido, Francisco Alberto (3); Galiatti, Umberto (1); Palumbo, Davide (1)	Defects characterization by using a deep learning approach on thermal data
838	Šnír, Miroslav; Backo, Patrik; Salač, Radek	Robotic Automation of MPI/FPI Inspections: System Integration, Performance, and AI-Assisted Evaluation
839	Bölükbaşı, Burak; Kulikov, Petr; Özünü, Özgür	Advances in Ultrasonic Testing for Clad and Lined Pipeline Girth Welds Using Virtual Source-TFM
841	Bonifazi, Roberto; Alesini, David; Faillace, Luigi	Development of a Compact and Scalable LINAC for Industrial X-Ray Applications.
842	Mikhnev, Valeri (1); Knap, Wojciech (2)	Calibration-Free Measurement of the Thickness of Non-Metallic Coatings on Metals by a Millimeter-Wave Sensor
843	Vigorelli, Luisa (1); Salvemini, Floriana (2); Jakubowski, Klaud (2); Safavi-Naeini, Mitra (2); Marcucci, Giulia (1); Cucini, Costanza (3); Riccardi, Maria Pia (4); Di Martino, Daniela (1)	Non-invasive high-resolution Neutron Tomography for the study of filigree decoration of the Chiaravalle Cross
844	Karwat, Piotr (1); Lewandowski, Marcin (1); Dragan, Krzysztof (2)	Ultrasound Software based Tomography for Porosity and Defect Characterization in Complex Composite Structures
846	Nazim, Arsalan (1); Gariboldi, Elisabetta (1); Tonti, Andrea (2)	AI Creep life-prediction assisted by creep damage evaluation
847	Pyun, Do-Kyung; Park, Jonghwan; Lee, Jaesun	Nonlinear Ultrasonic Characterization of Thermal-aging Effects on Contaminated Epoxy Polymers
848	Spadaro, Alessandra; Matrone, Francesca; Lingua, Andrea Maria; Rashidi Alavijeh, Ramin	Multi-hyperspectral imagery for semi-automatic decay identification: the case study of the Cavour canal historic water-bridge
849	Xiao, Yongshun (1,2); Hu, Chunbo (5); Lan, Dini (1,2); Ouyang, Xujian (1,2); Xu, Wenzhong (3,4); Ma, Peiyuan (1,2); Dong, Minghao (1,2); Li, Junjun (1,2); Lu, Zhiyong (3,4); Zhang, Yongjian (5)	Exploration of on-site archaeological excavation technology based on Compton scattering tomography
850	Siclarì, Claudia; Dhenge, Rohini; Rodolfi, Margherita; Lino, Tina; Ganino, Tommaso; Rinaldi, Massimiliano	Application of Pulsed Electric Fields and Ohmic Heating on Hop Pellets: Insights via Near-Infrared Spectroscopy

851	Martinez-Garcia, Jorge; Reichmuth, Cedric; Gwerder, Damian; Karmoker, Diponker; Fumey, Benjamin; Schuetz, Philipp	Unveiling CO2 uptake in a metal-organic frameworks (MOFs) based packed bed by X-ray computed tomography
852	Kunji Purayil, Sruthi Krishna (1); Balasubramaniam, Krishnan (2)	Sim-MDL: Multimodal Deep Learning for TBC Evaluation Using Infrared and Terahertz Imaging NDE
854	Zima, Beata	Guided-wave-based information transfer through parametric encoding of ultrasonic signals
855	Holloway, Paul (1); Gebraad, Lars (2); Udell, Chris (2); Boehm, Christian (2)	Digital twins of common ultrasonic NDT inspections verified by photoelastic visualizations
856	Brzuchacz, Sebastian	Study of casting defect signatures using X-ray computed tomography with a view to propose criteria for assessing their criticality
858	Moreira, Wilgo (1); Ferreira, Pedro M. (2); Reis, João dos (2)	Fault Detection Algorithm Implementation for Distributed Sensor Networks
859	Simon, Martin (1,2); Schanz, Tim (1); Tenschler-Philipp, Robin (1)	CT Based Deep Learning and Physics-Informed Surrogate Models for Structural Integrity Evaluation
860	Korda, Eleni (1); G. Aggelis, Dimitrios (2); L. Provis, John (1)	Acoustic Emission Monitoring of Hydration Processes in Cementitious Suspensions and Systems
861	Braga Campos, Lucas (1); Wagner Florencio dos Santos, Rafael (2); Maciel Coelho da Silva, Lucas (1); Bernardo Corrêa Lima, Diogo (1); de Andrade Freitas, Miguel (3); Giron Camerini, Cesar (1); Ribeiro Pereira, Gabriela (1)	Development and Validation of an Eddy Current Instrumented Pipeline PIG for Fatigue Crack Detection in Girth Welds of Clad Pipes
862	Viards, Raphaël; Marticou, Henri; Pirard, Jérémy	Enhanced Aircraft Visual Inspection: Improving Defect Detection with Deflectometry, AI Assistance, and Synthetic Data Augmentation
863	Sollberger, David; Lindner, Fabian; Krischer, Lion; Udell, Chris; Boehm, Christian	Model-assisted ultrasound computed tomography for PT duct inspections in concrete bridges
865	Teixeira, Alex (1,2); Dourado, Tiago (1); Miqueleti, Sandro (1); Costa-Felix, Rodrigo (1,2)	Ultrasonic contact force: velocity invariance and amplitude optimisation in steel and concrete
866	Zscherpel, Uwe (1); Bavendiek, Klaus (2)	The new DGZFP guideline D8 on displays for image evaluation, what is the message for the user?
867	Peng, Lei (1); Zhang, Zhibo (1); Zhang, Na (2); Deng, Yiming (1)	Edge AI enabled In-Situ Multi-modal NDE framework using Computer Vision and Eddy Current Testing
868	Mańczak, Ryszard	Modeling of ultrasonic evaluation of adhesive bond degradation
869	Islam, Showmic; Turner, Joseph	Ultrasonic Scattering utilizing Distributed Synthetic Microstructures
870	Gaumer, Jeremy; Dao, Gavin	Aerospace Immersion UT Inspections with Adaptive TFM
871	Sesana, Raffaella (1); Corsaro, Luca (1); Curà, Francesca (1); Dehghanpour, Mohsen (1); Javadi, Sadegh (2)	Optimizing Thermographic Fatigue-Limit Estimation: GPR, SVR, and Stacking Ensembles within the Two Curves Method for C45 Steel
872	Solademi, Oludare Amos; Abolle-Okoyeagu, Judith; Njuguna, James	Defect Initiation and Propagation in GFRP Ring through Multi-Physics Simulation and Acoustic Emission Monitoring
873	Bao, Sheng; Li, Yan; Hong, Jingxuan	Metal Magnetic Memory-Based Quantitative Evaluation of Surface Defects in Wire and Arc Additive Manufactured Steel Considering Orientation Effects
874	Sham, Zaki Bin Muhammad; Alqawzai, Shagea; Mohamad, Haris Sufyan Bin; Qui, Nguyen Thi; Zhao, Mingshan; Linyun, Zhang	AI-driven Prediction of Structural Steel Mechanical Properties Using Ultrasound and Eddy Current Testing
875	Oberdoerfer, York (1); Maev, Roman Gr. (2)	State-of-the-art ultrasonic spot weld inspection – manual, robot-based, and automated with AI
876	Mohamad, Haris Sufyan Bin; Alqawzai, Shagea; Sham, Zaki Bin Muhammad; Qui, Nguyen Thi; Zhao, Mingshan; Linyun, Zhang	AI-Driven Prediction of Structural Steel Mechanical Properties Using Chemical Compositions and Hardness

877	Bilotta, Antonio; Pollastro, Andrea; Di Cristinzi, Ivan; Pecce, Maria Rosaria	A comparative study of modal curvature and AI-based approaches for vibration-based damage detection
878	Malcolm, Andrew (1); Dong, Chaoyu (1); Cheng, Fang (2); Ng, Hwee Ping (2)	Towards Training-free Surface Detection and Characterization for Metal Addictive Manufacturing with Vision Foundation Model
879	Burgholzer, Peter (1); Gahleitner, Lukas (2); Mayr, Guenther (2)	Linking diffusive fields to virtual waves as their propagative duals
880	Matias, Luis	Thermal performance assessment of buildings' facades using infrared thermography
881	Mwelango, Martin (1); Yin, Xiaokang (1); Ricci, Marco (2); Li, Xiao (1); Yuan, Xin'an (1); Li, Wei (1)	Suppressing Spreading in CCS Data of Complex-Shaped Defects via Estimated-PSF Regularized Deconvolution
883	SIBERT, Virginie; GIUDICI, Roberto; BOSENNEC, Guillaume	Multisensor airborne survey and AI driven crack detection and mapping on Hydropower dams
884	Cappuccino, Gregorio; Carni, Domenico Luca; Laureti, Stefano; Maccaronio, Vincenzo; Zito, Rocco; Ricci, Marco	Linear and Nonlinear Ultrasonic Features for the estimation of the State-of-Charge in Lithium-ion battery cells
886	Forte, Anna; Trevisiol, Francesca; Fiorini, Giulia; Bitelli, Gabriele	Numerical integration of geomatic surveying and infrared thermography for non-destructive documentation of historic masonry
887	Ashworth, Christopher M. (1); Gaffney, James (1); Ralph, Jason F. (2); Thompson, Ian (1); Haslinger, Stewart G. (1)	Comparison of analytical and numerical methods for the diffraction of ultrasound from surface-breaking cracks
888	Furui, Sadataka	Non-Destructive Testing in (3+1)D and Optimal path search using Machine Learning techniques
889	Jessen-Juhler, Oskari (1); Virkkunen, Iikka (1); Seuaciu-Osorio, Thiago (2)	AI for manual ultrasonic inspection
890	Mottola, Vincenzo (1); Corcoran, Joseph (2); Ferrigno, Luigi (1); Nagy, Peter B. (2); Tamburrino, Antonello (1)	Buried corrosion imaging in magnetic plates by Electrical Resistance Tomography
893	Parrini, Marco Maria; Piazza, Anna Isabella	Using qualitative thermography in building analysis: examples and fields of application
894	Beckingham, Thomas (1); Gaffney, James (1); Colquitt, Daniel (1); Daniels, William (2); Ralph, Jason (1); Haslinger, Stewart (1)	1D-CNN for Automated Characterisation of Thermal Fatigue Cracks
895	Mussatayev, Meirbek (1); Ali Fasih, Mohammad (2); Kempka, Ruby (3); Sinclair, Ian (4); Alvarez Borges, Fernando (4); Lewis, Roger (3)	Integrated NDT Approaches for Characterizing Stud-Type Rail Defects: A Comparative Case Study
896	Li, Zi (1,2); Peng, Lei (2); Deng, Yiming (2)	Deployment Relevant Uncertainty Quantification for NDE 4.0 applications
897	Siddique, Ali (1); Pérez Caldentey, Alejandro (2); Bilotta, Antonio (1)	Inspection data based rapid assessment of corrosion in reinforced concrete bridges
898	Eren, Mehmet Esen (1); Fenerli, Cenk (2)	Mutual Validation of UPV, Schmidt Hammer, and Windsor Probe Tests for Estimating Compressive Strength of Earthquake-Damaged Concrete
899	Gupta, Saurabh; Udpa, Lalita; Haq, Mahmood; Deng, Yiming	Near- and Far-Field Delamination Monitoring in Metal-Composites Using Acoustic-Active Fiber-Optic Sensing: A Numerical Framework
900	Gupta, Saurabh; Mondol, Sujoy; Udpa, Lalita; Haq, Mahmood	CWT-Informed Parameter-Conditioned Neural Framework for Guided-Wave Scattering in Hybrid Laminates
902	Ranedda, Luca; Campori, Giorgia; Di Vita, Calogero Pio; Esposito, Diego; Insana, Daniele; Mucciarone, Antonio	Monitoring of a prestressed concrete bridge during phases of induced damage through cutting of prestressing cable strands

903	LAPRIDA, SEBASTIAN; BELINCO, CESAR	On the Basis of a Standard for NDT-CE Operators Training
904	Kamali, Soroosh (1); Palermo, Antonio (1); Ceravolo, Rosario (2); Marzani, Alessandro (1)	A model-based digital twin for structural health monitoring
905	Liu, Songping (1); Liu, Feifei (2); YANG, Yuseng (1)	The object-oriented intelligent testing and evaluation techniques and its application
906	Liu, Feifei (1); Liu, Songping (2); YANG, Yusen (2)	Ultrasonic 3D scanning technique for automated inspection of complex structures merging AI
907	Telesca, Domenico; Franchina, Alessio; Furento, Liberata	Ensuring NDT Safety in Cryogenic Propulsion: An Analysis of Modern Oxygen Compatibility Standards and Procurement Challenges for Liquid Penetrant Materials
908	YANG, YUSEN (1); LIU, Feifei (2); LIU, Songping (1)	The detection and intelligent evaluation of SiC/SiC composites using multi-method fusion
910	Ding, YInuo; Zhang, Hai	Hierarchical Infrared Thermography Framework for Ancient Timber Structures: From Solar-Induced Screening to Active Tomography
911	Ding, YInuo; Zhang, Hai	High-Fidelity 3D Point Cloud Reconstruction of Weathered Stone Inscriptions via Modulated Lock-in Thermography
912	Ding, YInuo; Zhang, Hai	A Pseudo-Line-Scanning Reconstruction Framework for Dynamic Infrared Inspection of Large-Scale Timber Structures
913	Zhang, Zhiyang; Zhang, Hai	Waveform-Optimized Active Infrared Thermography on a Yuan-Dynasty Stele in Ningbo
914	Zhang, Zhiyang; Zhang, Hai	Automatic Defect Detection in Canvas Painting Using Active Infrared Thermography and an Improved YOLOX Network
915	Telesca, Domenico; Franchina, Alessio; Furento, Liberata	Automated Defect Recognition in Solid Rocket Motor Manufacturing: Reconciling AI Performance Metrics with ECSS POD Requirements for Digital Radiographic Inspection of Solid Rocket Motors
916	Siddique, Ali; Prodromo, Vittorio; Bilotta, Antonio	Deep learning based multiclass surface damage detection for RC Bridge inspection using UAV imagery
917	LAPRIDA, SEBASTIAN (1,3); KIHARA, FLORENCIA (2)	Urban Utilities: NDT-CE on a Concrete Structure, after 28 years with its construction halted
918	Chady, Tomasz; Grochowalski, Jacek; Łukaszuk, Ryszard	Multi-Source Non-Destructive Evaluation of Carbon Steel Specimens Subjected to Static Tensile Loading
920	D'Angelo, Simone; Lippiello, Vincenzo	Enhancing Aerial Non-destructive Tests with Controlled Sliding for Concrete Inspection
921	Mugnos, Giuseppe; Lo Giudice, Elio	Beyond sensor calibration: an evolutionary approach to dynamic structural monitoring
922	Li Calzi, Carol	Monitoring and Control of Hydration Heat Development in Massive Concrete Pours
923	Giacchetta, Roberto (1); Ferandez Cruza, Jorge (2); González Bueno, Ricardo (1); Moreno Hernandez, Edurado (1)	SITAU-2: A High-Performance Ultrasound Phased Array Research Platform
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925	Ewert, Uwe	Recent Trends in Digital Industrial Radiography and CT
926	RAMANI, VENKAT N (1); KAILA, AKASH V (2); KAILA, MILAN N (2)	Estimation of the Helium Leak Rate in Extremely Low Volume Sealed-off components using Helium Bombing Technique in the NDT- Leak Testing Method
927	Giacchetta, Roberto (1); González Bueno, Ricardo (1); Moreno Hernández, Eduardo (1); F. Cruza, Jorge (2)	AirScope: 20 Years Innovating in Non-Contact NDT Inspections
929	Sharma, Manish; Bose, Tanmoy	Application of Near-Field Acoustic Holography in Local defect resonance based Non-Destructive testing of Flaws in Composite Materials
930	Uher, Josef; Zalisova, Jana; Vesely, Jakub; Pech, Michal; Dominec, Filip	Multi-robot computed tomography platform for adaptive Non-destructive evaluation
931	Kim, Sangwoo	Acoustic Emission-Based Evaluation of Wear Evolution in Zinc Phosphate/Stearate Coatings for Cold Forging
932	Gennaro, Andrea (1); Molon, Nicola (1); Ravasini, Simone (2); Rampini, Marco Carlo (3); Roumia, Nzeeh (4); Saler, Elisa (1); Belletti, Beatrice (2); Di Prisco, Marco (3); Mazzotti, Claudio (4); Artioli, Gilberto (1); Bilotta, Antonio (5); da Porto, Francesca (1)	An integrated investigation framework for knowledge enhancement in the safety assessment of a historical RC Gerber half-joint bridge

933	Benedet, Mauro Eduardo	Shearography for Non-Destructive Inspection of Composite Repairs under Passive Fire Protection
936	Westra, Kevin	Parallel Acquisition of PCI and TFM Images for Enhanced Assessment Accuracy
937	Park, Keuntae	Acoustic Emission Characteristics of Damage Mechanisms in Carbon Fiber Reinforced Polymer Materials
939	Mori, Kazuya	Remote Impact Acoustic Inspection of Tiled Surfaces Using Water Droplets
941	Park, Ikkeun	Construction of a Phased Array Ultrasonic Testing (PAUT) Performance Demonstration (PD) System for Petrochemical Plant Facilities in Korea
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944	Cecere, Anselmo (1); Tati, Angelo (2); Mirabile Gattia, Daniele (2)	Tomographic reconstruction and microstructural observations of 3D printed heat pipes
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950	Khabou, Mehdi	Dual-Sensor Electromagnetic Non-Destructive Testing for Material State Assessment of different Quenched and Tempered Steels in the Context of Circular Production
951	Lang, Paul (1); ZAVADIL, Tomas (2)	Introducing the ASNT 9712 Certification Program to Europe: A Performance-Based ISO 9712 Certification Approach
952	Cardani, Giuliana (1); Cerri, Michele (2); Tiraboschi, Claudia (3); Cucchi, Marco (3)	Non-destructive testing to reveal the history of a 17th-century building
953	Carrasco, Francisco	Development of Radial NDT Inspection for Electron Beam Runout Welding in Helicopter Components
954	Wissels, Steven	Digital vs Film Radiography Performance for High-Energy Nuclear Weld Inspection
955	Krayem, Tarek	Beyond Rubble: The Indispensable Role of Non-Destructive Testing in Post-War and Post-Earthquake Recovery for Aleppo's Modern and Heritage Structures