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292	Enhancing Resilience Beyond Borders: IAEA Capacity-Building Missions on NDT-CE in Türkiye and Syria	Xargay, Hernan (1,2); Affum, Hannah (3); Domato Jayo, Abel (4)
293	Image Quality Indicator for XCT Systems	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)
294	Magnetic Characterization of Structural Steels under Different Heat Treatment using Pulsed Eddy Current Testing	Kyrgiazoglou, Athanasios (1); Skarlatos, Anastassios (1); Fasnakis, Dimitrios (2); Pappa, Maria (3,4)
295	A Diffusion-Based Unsupervised Framework for Wheelset Ultrasonic Defect Detection	zhang, qian (1); zhang, fuben (1); ding, haoyu (2); wang, ai (2); peng, jianping (1); gao, xiaorong (1); yang, kai (1)
296	Structural integrity of GFRP (Glass Fiber Reinforced Polymer) non-pressurized reactor – main aspects and case study analysis	DI FONZO, DOMENICO (1); AUGUGLIARO, GIUSEPPE (1); DELLI QUADRI, FAUSTA (2); MARRAZZO, ROMUALDO (2); VAZZANA, FABRIZIO (2); BARTOLOZZI, VINCENZO (3)
298	Integration of AI-Based Automatic Defect Recognition (ADR) in X-ray Inspection of Castings	Stocker, Thomas; Gosswami, Bishwajit Mohan; Chanda, Rajib Kumar; Sukowski, Frank; Schön, Tobias
301	Development of an Optimized Non-Contact SFCW-SAR Scanning System for Concrete Structures	Lee, Joo-Hyung; Joh, Changbin; Choi, Ji-Young
302	Non-destructive testing for the safety of an elevated work platform	Monica, Luigi; Anastasi, Sara
304	Non-destructive Evaluation of Microcracks in WC-10Co-4Cr (HVOF) Coatings using Eddy Current Testing and Induction Thermography	Steinbrecher, Niklas; Maier, Hans Jürgen; Barton, Sebastian

305	Microwave inspection of HDPE pipes and joints	Demma, Alessandro; Valle, Victor Manuel; Garcia Aguilar, Guillermo
306	From Incident Analysis to Prognostic Safety: An INAIL Framework for Residual Life Estimation Based on Real Cases and NDE 4.0 Technologies	INFORTUNA, PAOLO (1); SANTORO, FRANCESCO (2); SPINOSO, SALVATORE (3)
307	Application of the Potential Method for Real-Time Crack Detection in High-Temperature Components	Mares, Pavel; Zivny, Petr; Mekuta, Marek
308	Real-Time Subsea Cable Motion Monitoring via SSTDR	DiBattista, Andrew (1); Cartledge, Nathan (1); Whitmore, Tim (2)
309	CIVA Scan Plan: a generic framework for ultrasonic coverage evaluation and inspection plan optimization	Le Berre, Stéphane (1); Jezzine, Karim (1); Banchet, Julien (2); Pinto, Patrice (2); Mathieu, William (2)
311	Research on Remote Magnetostrictive Ultrasonic Guided Wave Testing for STPG370 Pipes Under Insulation	Uesugi, Kenta; Awano, Hiromu; Hatsukade, Yoshimi
312	Resolution Enhancement by Sparse Deconvolution for Composite Panels with Embedded Wiring	Kanis, Lisanne; Jansen, Patrick; Volker, Arno
314	Self-Supervised Anomaly Detection in Extremely Imbalanced Ultrasonic Railway Data: An Adaptive Triplet-Center Approach	Li, Huiying; Hartmann, Timo
315	Monitoring the technical condition of the fuel storage facility at the Ukrainian Antarctic Akademik Vernadsky station	Posypaiko, Yurii (1); Andreev, Anatoliy (2)
316	Simultaneous Thickness Measurement of Multiple Bondlines using Transmission Measurements	Volker, Arno; Jansen, Patrick
317	Simulations and experiments to optimize Laser Ultrasonic Testing	van Elburg, Benjamin; Jansen, Patrick; Volker, Arno
318	Analyses of advanced bio-composites using acoustic emission and machine learning	Tiitta, Markku (1); Tiitta, Valtteri (1); Wen, Jiang (1); Immonen, Kirsi (2); Asad, Faisan (2); Lappalainen, Reijo (1); Tomppo, Laura (1)
319	Lead-free piezoceramics – Available materials and application prospects in ultrasonic testing	Neubert, Holger
321	Unsupervised Defect Detection in Industrial Images with Conformal Anomaly Detection and VAEs	ESTERMANN, Flora (1,2); GUY, Philippe (2); DELACHARTRE, Philippe (1); KAFTANDJIAN, Valérie (2)
322	A New Concept for Calibration of Weld Seam Testing for HFI-Pipelines Using Embedded Mid-Wall-Reflectors	Schmitte, Till (1); Labud, Patrick (1); Thewes, Lena (1); Orth, Thomas (1); White, Michael (2); Weil, Christoph (2); Böcking, Marco (2)
323	Augmented Reality in Aircraft Maintenance	Hartfill, Judith; Schmied-Kowarzik, Rahel Louise; Wilken, Andreas; Kaschub, Lina; Rodeck, Rebecca; Wende, Gerko
325	Eddy Current-Based NDT of Braided Multistrand Carbon Fiber Rigging	Bolinhas, Francisco (1); de la Cuesta, Juanjo (2); Cooley, Seth (2); Santos, Telmo G. (1,3); Machado, Miguel A. (1,3)
326	Eliminating Artifacts and Boosting Efficiency with Varex TrueSpectrum Imaging	Stamm, Michael (1); Hu, Martin (2); Schock, Jonathan (3)
327	Computed tomographic inspection in the aerospace industry: guidelines for standardize the inspection process according to Italian experience	Benuzzi, Stefano (1); Mascolo, Francesco (2); Guelfo, Sara (3); Furente, Liberata (4)
329	Coupling Eddy Current and Thermal Diffusion Simulation to Model Induction Infrared Thermography in CIVA	Bakry, Marc; Biezemans, Rutger A.; Demalident, Edouard
330	Multi-stage image processing approach for 3D-CT based in- or at-line inspection of battery cells.	Gondrom-Linke, Sven (1); Ramos, Tiago (1); Schmid, Simon (2)
331	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	RABAGLIA, SARA (1); PIERETTI, NICHOLAS (2); MASSIMI, CRISTIAN (1,2)
332	A Human-Centric Framework for Incremental and Active Learning in AI-Based Non-Destructive Testing	Mendikute, Julen; Lanzagorta, Jose Luis; Aizpurua, Iratxe; Sanchez, Irati; Ermina, Irantzu

333	Evaluation of material properties of plates with PAUT using particle swarm optimization inversion procedure	Ribay, Guillemette; Yilmaz, Bengisu; Axel, Thomas; Baudis, Quentin; Recoquillay, Arnaud
334	Spatially Resolved Acoustic Spectroscopy: from hard to soft materials elastic characterisation	Fuentes-Dominguez, Rafael (1); Karet, Samuel (1); La Cavera III, Salvatore (1); McIntyre, Alan (2); J. Smith, Richard (1)
335	Random Walk Modelling of Hydrogen-induced Defects for Ultrasonic Response Analysis	Chang, Liuyu; Drinkwater, Bruce; Zhang, Jie
337	Development of NDT technology by means THz radiation and penetrants in aerospace	Kazakevych, Mykhailo Leonidovych; Denyshchenko, Oleksiy; Kazakevych, Volodymyr
338	3D Weld Seam Sensor for the Detection of all types of Defects on the Material Surface	Zhao, Jun
339	Seven Years of Innovation in Binary Ultrasonic Imaging for NDT	Belanger, Pierre (1); Painchaud-April, Guillaume (2); Le Duff, Alain (2); Gauthier, Baptiste (2); Rasolonirina, Tony (1); Thon, Aurelien (1); Niddam, Rafael (1)
341	Dual-Temperature-CT: An Experimental Method for Three-Dimensional Polymer Characterization	Glinz, Jonathan; Heupl, Sarah; Thalhammer, Julia; Kastner, Johann; Senck, Sascha
343	Tomographic Reconstruction of the Subsurface Grain Structures in Polycrystalline Materials using Full-Waveform Inversion	Wan, Fangyuan (1); Zhang, Jie (1); Mulholland, Anthony J. (2)
344	Internal Temperature Field Prediction Using Helmholtz-Informed Neural Networks	Zhu, Pengfei (1); Zhang, Hai (1,2); Maldague, Xavier (1)
345	Application of NDT magnetic property (coercivity) measuring method for indicating mechanical state of steel after induction pipe bending	Solomakha, Roman (1); O'Shea, Connor (2); Bezlyudko, Hennadii (3)
346	Non-Contact Ultrasonic Evaluation of Alignment Accuracy in Automotive Lamp Testing	Ji, Bonggyu (1); Heo, Min (1); Kim, Ho Kyoung (1); Kim, Seong Yeon (1); Shin, Seongdong (1); Choi, Wonjae (2)
347	Manufacturing and Characterisation of artificial-induced Defects in Fibre Metal Laminates for Modal Analysis	Eisele, Lars; Esse, Daniel; Liebig, Wilfried
349	Ultrasonic Evaluation of Equivalent Stress in Bolts Using Acoustic Birefringence	Ge, Tianxiang (1,2); Li, Jiaxin (1,2); Zhao, Bo (1,2)
350	Refractories under Observation: Comparison of Air-coupled Ultrasound Testing and Computed Tomography	Golitsyn, Yury; Steinhausen, Ralf
351	Terahertz Inline Measurement System for Continuous Tracking of Inner Pipe Positions During the Production of Insulated Pipe Systems	Hussung, Raphael (1); Gantenbein, Rodrigo (2); Friederich, Fabian (3); Kress, Jürgen (2); Bauer, Maris (1)
352	Robotic CT for Quality Assurance of Arbitrary Test Objects in an NDE 4.0 Smart Factory Environment	Herold, Frank; Kühne, Jonas
353	Detection and staging of hydrogen induced damage in heat exchanger shells using machine learning techniques	Samaitis, Vykintas; Raišutis, Renaldas; Asokkumar, Aadhik
354	NDT methods for crack detection in prestressed concrete railroad sleepers	Hillmann, Susanne (1); Frieese, 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)
355	From PT to ECA: A Simulation-driven study on key parameters in Eddy Current Array Inspection method development	YALAGADA, Raju (1); BARUT, Silvère (1); PREMEL, Denis (2)
356	Investigating the quality of grouting for tendon ducts using numerical UT-simulations	Dethof, Fabian; Marsili, Francesca; Keßler, Sylvia
357	Laser Ultrasound in Wire Arc Additive Manufacturing: Imaging of internal structure and defects	Huber, Norbert (1); Hoffmann, Maximilian (2); Mauthner, Gernot (2); Reitinger, Bernhard (1)
358	Transition from Internal Visual Testing (VT) to External Robotized Phased Array Ultrasonic Testing (PAUT) for Periodic Pressure Vessel Examinations in Switzerland	Romito, Carlo (1); Cipolla, Stefano (1); Centenaro, Francesco (2)

359	Nonlinear P-POD: Enhancing Probability of Detection in X-ray Thickness Inspections	Kirschbaum, Kerstin (1,2); Goldammer, Matthias (2); Grosse, Christian U. (1)
360	Detecting α' -martensite in 316L austenitic steels with magnetic NDT technologies	Petitpré, Héléne (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)
361	Optimized Methodology for Tomographic Reconstruction in X-Ray Inspection Using the CIVA Simulation Platform	Bussy, Victor; Escoda, Julie; Touron, Anthony; Costin, Marius
363	Coverage Analysis of automated robotic inspection of large aircraft parts	Kirchberger, Daniela; Eitzinger, Christian; Walenta, Wolfram; Leitner, Markus
365	Research on Steel Rail Surface Rolling Defect Detection Using the Fusion of Inductive Thermography and Optical Imaging Technologies	Tian, Kang (1); Kou, Liaoyu (1); Zhao, Bo (2); Gao, Xiaorong (1); Peng, Jianping (1)
366	Monitoring System for the Manufacturing Process of CFRP Structures	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, Sofía (2)
367	CT-Based Investigation of Defect Evolution in Polymeric Components under Cyclic Mechanical and Hydrogen Pressure Loading	Heupl, Sarah (1); Thalhammer, Julia (1); Mills, Bernice (2); Menon, Nalini (2); Nissen, April (2); Kastner, Johann (1)
368	Enhanced photothermal reconstruction of back wall near defects in pulsed thermography using the virtual wave concept	Gahleitner, Lukas; Mayr, Gernot; Mayr, Günther
369	Real-Time Defect Detection Using Artificial Intelligence Models in Ultrasonic Inspections	GAUNA LEON, Iñaki (1); PARRILLA ROMERO, Montserrat (2); ACEBES PASCUAL, Montserrat (1); APARICIO SECANELLAS, Sofía (2); GRANDE FERREIRO, Antonio (1); GONZALEZ HERNANDEZ, Margarita (2); AGUADO TRIGUEROS, M. Teresa (1)
370	Artificial Intelligence and Computer Vision for Automated Aircraft Defect Detection	ACEBES PASCUAL, Montserrat; ALVAREZ GARCIA, Marcos; GRANDE FERREIRO, Antonio; GAUNA LEON, Iñaki; BENITO ESCOLAR, Carlos; AGUADO TRIGUEROS, M.Teresa
371	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	Rozo Vasquez, Julian (1); Mohsin, Muhammad Rafay (1); Arian, Bahman (2); Kersting, Lukas (3); Homberg, Werner (2); Trächtler, Ansgar (3); Walther, Frank (1)
372	Integration of Simulated and Experimental CT Data for Automated Defect Detection in Additive Manufactured Components	Vilches, Celia (1); Salinas, Amalia (1); Yosifov, Miroslav (2); Senck, Sascha (2); Galleguillos, Carlos (1)
373	A tool to evaluate simultaneously the phase and group velocities of the asymmetric Lamb wave mode using two adjacent signals	Draudviliene, Lina; Tumšys, Olgirdas; Lapienis, Paulius
374	Data-Driven Geostatistical Mapping of Concrete Mechanical Properties from Ultrasonic Measurements	Lakhouit, Douha (1,2); Ranaivomanana, Narintsoa (2); Taillade, Frédéric (1); Iooss, Bertrand (1); Balayssac, Jean-Paul (2)
375	Ultrasonic NDT of a multipass austenitic GTAW weld: challenges related to welding position.	Delmotte, Simon; Gueudré, Cécile; Ploix, Marie-Aude; Vallée, Jean-Christophe; Corneloup, Gilles
376	High-Resolution Immersion Ultrasonic Testing of Critical Aerospace Parts in MRO Operations	Buchmeier Hevroni, Iris
378	Development of an eddy-current probe for quality control of conductive 3D printing by FEM simulation	Schulze, Till (1); Rake, Maren (2); Schulze, Martin (2); Gromberg, Natalia (3); Heuer, Henning (1); Drossel, Welf-Guntram (3)
379	Performance Comparison of Total Focusing and Phased Array under Practical Inspection Uncertainties	Jordan, Benoit; Romito, Carlo; Algernon, Daniel
380	Complementary Use of Volumetric and Surface Non-Destructive Techniques for the Detection and Evaluation of Stress Corrosion Cracking in Critical Energy Assets	Raude, Angelique (1); morais, ghislain (2); turcu, florin (1)

381	Adapting Conventional Dual-Channel Eddy Current Instruments for Flexible Array Operation in Harsh Environments	Hernandez, Alexis (1,2); Dobie, Gordon (1); MacLeod, Charles (1); Gough, Iang (2); Hansen, John (2); Mohseni, Ehsan (1)
382	Analytical-Numerical Signal Modeling for Eddy Current Probe in Subsurface Defect Detection Tasks	Lysenko, Iuliia (1); Kuts, Yurii (1); Uchanin, Valentyn (2); Mirchev, Yordan (3)
383	Effect of plastic strain and reloading stress on the acoustic birefringence of a martensitic steel	MAAZAZ, zakariae; LEFEVRE, Fabien
384	European Reliability Framework: A Bridge between the different systems in NDT and the key for NDT 4.0	Kanzler, Daniel
385	Practical Implementation of Phased Array Ultrasonic Testing (PAUT) in Automated Disc Inspection Systems	Bron, Michael; Miltreyger, Elena
386	Advancing Quality Assessment of Adhesive Bonds through Automated Laser-Excited Ultrasonic Inspection	Ziegelwanger, Tobias; Sommerhuber, Ryan; Pörmbacher, Josef; Fischer, Balthasar
387	Advances in X-ray CT of Large & Dense AM Components	Brierley, Nick; Mrzljak, Karin; von Schmid, Mirko; Weiß, Moritz; Zengerling, Benjamin; Günnewig, Olaf
388	An Explainable and Standards-Aware AI Framework for Automated Ultrasonic Inspection Using Volumetric Learning, Compliance Encoding, and RAG-Based Reporting	Vishwesh, Vishwesh (1); Böttger, David (2)
389	Non-destructive orientation and elasticity determination of the Gibeon meteorite using Spatially Resolved Acoustic Spectroscopy	Li, Wenqi; Clark, Matt; J. Smith, Richard
390	Experimental and numerical investigation of orientation-dependent eddy-current behavior in CFRP laminates	Sharma, Atul; Hughes, Robert
391	Probability of detection of an automated ultrasonic testing inspection system in the seamless pipe industry	LEFEVRE, Fabien (1); NDAO, Bada (1); LAZZARI, Olivier (1); OUEDRAOGO, Daryl (2); CLAUSSE, Bastien (2); FOUCHER, Fabrice (2)
392	Distributed Acoustic Sensing (DAS) for the monitoring of infrastructure – challenges and limitations	Weihnacht, Bianca; Kuehmstedt, Mario; Augustin, Jörn; Stephan, Mareike; Gaul, Tobias; Tautz, Lili; Neubeck, Robert
393	Sparse 3D imaging	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)
394	Adaptive Laser-Induced Phased Arrays for Volumetric Imaging of Defects in 3D Curved Surfaces	Fuentes-Dominguez, Rafael; Todd, Martin; J. Smith, Richard; Clark, Matt
395	Frequency-Kernel Based Virtual Wave Thermography for Composite Panels	Wang, Xiangyu (1,2); Kerseman, Mathias (2,4); O.Krushynska, Anastasiia (1); E. Bal, Ihsan (1); Yi, Qiuji (3); Cheng, Liangliang (1)
396	NV-NDE: a novel technique using quantum diamond sensors for non-destructive evaluation of metals	Vindolet, Baptiste; Bourcin, Guillaume; Nguyen, Hoai Nam; Hingant, Thomas
398	Modelling and simulation use in X-ray Computed Tomography for NDT	Costin, Marius; Bussy, Victor; Escoda, Julie; Lemaire, Hermine; Rathore, Jitendra Singh; Stolidi, Adrien; Touron, Anthony
399	Advancements in Direct Velocity Mapping Applied to Composite Panels	Vrolijk, Jan-Willem; Hasseffras, Emiel; Mout, Marco; van der Heiden, Maurits; Merks-Swolfs, Egon; Martina, Quincy
400	Enhanced inspection applications using modulated ultrasonic transmitters	Würschig, Thomas; Fey, Peter; deOdorico, Walter; Falter, Stephan
401	Distinguishing defects from corrosion in ultrasound images	Cai, Yongxing; Mulholland, Anthony; Zhang, Jie

402	New Standards and Requirements for Quality Assurance in Industrial Computed Tomography	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)
403	New Solutions Focused on Phased Array for the Inspection of High-Density Polyethylene	Wendorf, Justin (1); Turcu, Florin (2)
405	Direct Current Magnetic Flux Leakage Testing (DCMFL): Improving Repeatability for Oblique Defects by DC-Demagnetization	Eibofner, Frank; Hecker, Friedrich
407	European and international standardization – a strategic tool for stakeholders in NDT	Baensch, Franziska (1); Schmitt, Michael (1); Müller, Daniel (1); Zscherpel, Uwe (2); Ewert, Uwe (3)
408	Assessment of Through-Transmission Eddy Currents for Subsurface Crack Detection	Mandache, Catalin (1); Dionne, Leo (1); Prigli, Antal (2)
409	Eddy Current Testing for Subsurface Defects in Dissimilar Aluminum Alloy Joints Produced by Friction Stir Welding Method	Kalembe-Rec, Izabela (1); Kapayeva, Sarken (2); Hansen, John (3); Bergander, Marek (1)
410	Study and modelling of non-linear effects for acoustic quality monitoring of an ultrasonic welding process	Reindl, Timo; Chung, Phi-Long; Bonten, Christian; Kreutzbruck, Marc
412	Multi-Source-CT - 100% inline inspection of extruded and pultruded profiles using computed tomography	Eberhorn, Markus; Rettenberger, Simon
413	Quantitative Evaluation of Crack Depth in Ceramic Matrix Composites Using Eddy Current Testing	Minoura, Kohei (1,2); Uchimoto, Tetsuya (2); Kosukegawa, Hiroyuki (2); Hashimoto, Shuhei (3); Kudo, Kohei (3); Hashimoto, Mitsuo (4); Takagi, Toshiyuki (5)
414	Corrosion Detection in Small-Diameter Pipelines Using Electromagnetic Ultrasonic Excitation of Zero-Group-Velocity Longitudinal Guided Waves	Li, Jiaxin; Sheng, Tianchen; Zhao, Bo
415	Analysis and monitoring of the covering of Loggia Palace at Brescia - Italy	Foppoli, Dario (1); Giuliani, Guido (2); Scamoni, Patrizia (3)
416	Correlation-Based Memory Updating for Continual Learning Under Limited Data Conditions	Park, Chanwon (1,2); Lee, Jaebeom (1,3); Lee, Young-Joo (2)
417	Electrical Reflectometry for Early Fault Detection in Power Cables	Whitmore, Tim (1); Onoufriou, Constantinos (1); Chen, Lujia (1); Peyton, Anthony (1); Xu, Guangqiao (2)
419	Efficient Evaluation of Ultrasonic Phased Array Performance with Applications to Limited-Firing Scenarios	Malkiel, Nachman (1,2); Croxford, Anthony J. (2); Wilcox, Paul D. (2)
420	Resonant Ultrasound Characterization of Materials in the ECOBALLIFE Project	Le Bourdais, Florian; Ribay, Guillemette; Jacques, Marie-Bénédicte
421	From Conventional Tomography to Laminography: Geometry-Specific Trajectory Optimization and Reconstruction Strategies	Rathore, Jitendra Singh; Bussy, Victor; Costin, Marius; Jacques, Marie-Bénédicte
422	Acoustic emission and distributed backface strain monitoring of crack growth in composite adhesively bonded joints under mode II fatigue loading	Panerai, Alessandra; Oneda, Benedetta; Martulli, Luca Michele; Bernasconi, Andrea; Carboni, Michele
423	A Case Study of the Domava Statue: Reverse Engineering Through 3D Laser Scanning, CT imaging, and 3D Printing	Sokolova, Ekaterina (1); Mancini, Lucia (1); Korat Bensa, Lidija (1); Bellotto, Maurizio (2); Žbona, Nina (3)
424	Advancements in Nondestructive Testing and Monitoring Process	conrad, Christian (1); Gabi, Yasmine (1,2); Mueller, Thorsten (1)
425	Dynamic Monitoring of Bridges and Viaducts	Sforza, Giorgio
426	Dynamic monitoring of monumental artifacts	Sforza, Giorgio
427	Integration of UPV data in H-BIM environment for strength estimation and monitoring of building stones in architectural heritage	Vasanelli, Emilia (1); Sticchi, Matteo (2); Blasi, Gianni (2); Perrone, Daniele (2)
429	Modelling study of surface treatment on eddy current testing: Influence of geometry	Demaldent, Edouard (1); Vigneron, Audrey (1); Ghibaud, Olivier (1); Corazza, Alexandre (2); Banchet, Julien (2)
430	Life Assessment of Martensitic Steels — Experimental Validation Activity of XRD by Testing Martensitic Steels Samples from Interrupted Uniaxial Creep Tests	Tonti, Andrea (1); De Blasi, Pietro (2)

431	Corrosion Mapping in Buried Section of Monopoles Using Magnetostrictive Transducer Arrays	Vinogradov, Sergey (1); Fisher, Jay (1); Grädel, Patrick (2); Dupuis, Pierre (2); Hirschhausen, Dominik (2)
433	Local Resistance Evaluation of Printed Electronics During Jet-Dispensing and IR-Sintering Using Eddy Current and Laser Profilometry with Temperature and Lift-Off Compensation	Gromberg, Natalia (1); Boxberger, Lukas (1); Schulze, Till (2); Heuer, Henning (2); Drossel, Welf-Guntram (1)
434	Simulation of functional ageing towards failure prediction of dental restorations - Investigating the crown-cement-tooth complex using synchrotron x-ray refraction radiography	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)
435	A novel method to measure wall thickness under an obstruction by conventional ultrasonic thickness and flaw gauges	Davison, Matthew
438	High-Resolution FMCW Radar for Non-Destructive Testing of RAAC Structures	Khalil, Kamal; Forster, Samuel J. I.; Podd, Frank J. W.; O'Toole, Michael; Peyton, Anthony J.
439	French Certification of NDT operators for the detection of reinforcement in concrete structures	BOULE, Alexandre (1); QUENEE, Bernard (2); BALAYSSAC, Jean-Paul (3); CORDIER, Nathalie (4); GWINNER, Sophie (5); OSTROWSKI, Christopher (6); DEROBERT, Xavier (7); VINCENT, Bernard (8); BOURREAU, Lucas (9); LE BEC, Jules (10); SBARTAI, Mehdi (11); EL TAHIR, Sandra (12); GENEAU, Stéphane (12)
440	How as-built surface waviness affects the fatigue performance of steel components remanufactured by wire arc additive manufacturing	Motte, Robin (1); Vander Linden, Matthieu (1); Ghesquiere, Dana (1); Steenssens, Luka (1); Sudhakar, Anil (1); Hectors, Kris (1,2); De Waele, Wim (1,2)
441	Real-time Stiffness Characterization of Complex-shaped Metal Parts by Vibrational Testing and Machine Learning	Orta, Adil Han (1); Chabanet, Sylvain (1); Kersemans, Mathias (1,2)
442	Pasawis – The innovative Wheel Set Inspection System	Conrad, Christian (1); Caspary, Stefan (1); Raude, Angélique (2)
443	High-speed X-ray CT for inline battery inspection	Mueller, Kristin; Herold, Frank
445	Traceability and operator assistance system for manual UT non-destructive testing	Grassin, Florence (1); Cardoso, Michel (1); Saint-Martin, Vincent (1); Bergeaud, Vincent (1); Banchet, Julien (2); Mayau, Cécile (2)
446	In-Situ Electromagnetic Monitoring of Annealing Behaviour in Interstitial-Free Steel Using a High-Temperature Furnace Rig	Zhou, Lei (Frank) (1); Jolfaei, Mohsen A. (1); Wilson, John (2); Slater, Carl (1); Davis, Claire (1); Peyton, Anthony (2)
447	Non-destructive electromagnetic sensor array for spatially resolved phase transformation monitoring in steel narrow strip and rod processing	Wu, Fanfu (1); Zhou, Lei (1); Hobson, Shaun (2); Green, Matthew (3); Davis, Claire (1)
448	Target 3D for visual testing with drones	Augugliaro, Giuseppe; Artenio, Emanuele; Balistreri, Riccardo; Gattamelata, Davide; Giacobbe, Francesco; Spanu, Omero
450	Ultrasonic Tomographic Evaluation of Structural Homogeneity in Reinforced Concrete Columns	Somens Lorenzi, Luciani; Lorenzi, Alexandre; Reginato, Lucas Alexandre
452	Crack Characterization Using Multi-Scale Scattering Matrix Denoising Extrapolation and Optimal Scale Selection	Hu, Yiliang (1,2); Bai, Long (1)
453	Multi-Mode Nonlinear Resonant Ultrasound Spectroscopy (MM-NRUS) for Quality Control of Additively Manufactured Metals	zhang, rui (1); Orta, Adil Han (1); Kersemans, Mathias (1,2)
454	NDT in Art: how NDT techniques reveal hidden features in Vermeer's paintings	Gilbert, David

455	Non-destructive characterization and evaluation of adhesive joints using artificial intelligence tools	Šeštókė, Justina; Butkevičiūtė, Eglė; Smagulova, Damira; Jasiūnienė, Elena
456	Automated Robot Path Planning for Camera-Based Magnetic Particle Inspection	Gürtl, Benedict
457	AI in ultrasonics spot weld inspections	Wagner, Christian
461	Revealing Hidden Structures in the Eastern Wall of Menkaure Pyramid using NDT Techniques	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)
462	Thermographic Monitoring of a 78m Wind Turbine Blade during Fatigue Tests	Stamm, Michael; Chaudhuri, Somsubhro; Lecompagnon, Julien; Grzywok, Patrick
463	Defect Reconstruction via Total Focusing Method and Phase Coherence Imaging for Materials Exhibiting Elliptical Anisotropy	Spies, Martin; Chinta, Prashanth; Falter, Stephan
464	ONDE (Open Non Destructive Examination) file format – technical choices	Bergeaud, Vincent (1); Chatillon, Sylvain (1); Holland, Steve (2); Massey, Terrill (3); Mistral, Quentin (4); Schumm, Andreas (4); Wilcox, Paul (5)
465	Inspection of welds on thin stainless steel sheets using advanced ultrasonic TFM-FMC technique	IAZOURENE, Tarik; LAROCHE, Etienne; PONTON, Jimmy
467	Active thermography with pulse compression for thermally fast materials	Lecompagnon, Julien (1); Zito, Rocco (2); Laureti, Stefano (2); Ziegler, Mathias (1); Ricci, Marco (2)
468	Qualification and Certification of NDT Personnel in Civil Engineering (NDT-CE)	Feistkorn, Sascha
469	Superpixel Graph Attention Network for Crack Segmentation in Complex Components Using Automated Laser Thermography	Kunji Purayil, Sruthi Krishna (1); Fiorese, Rita (2); Lapenna, Michela (2); Hirsch, Philipp Daniel (1); Lecompagnon, Julien (1); Ziegler, Mathias (1)
470	Advances in Drone-Deployed Magnetic Probe for Transmission Line Cables and Material Characterization	Rheault, Sophie-Anne (1); Bellermaire, Jonathan (2); Buist, Alexandre (2); Ménard, David (1); Pouliot, Nicolas (2); Sirois, Frédéric (1)
472	A Study on Anomaly Detection in Operating Bearing using Acoustic Emission and Deep Learning	Jang, Jaewon (1,2); Kim, Yongtag (1); Lee, Hyoseong (1,2); Kim, Ki-Bok (1,2)
473	NDT, building models, numerical simulations, image fusion, and virtual reality – case study investigating an old cultural heritage structure	Grosse, Christian (1); Elkarmoty, Mohamed (2); Schumacher, Thomas (3); Marini, Benoit (4); Tayoubi, Mehdi (5); Helal, Hany (2)
474	A Multimodal Non-Destructive Method for Local and Non-Local Characterization of Residual Stresses in Rolled Steel Plates	Lhémery, 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)
476	Ultrasonic Wave Propagation Analyses in Cast Stainless Steel using Solidification Grain Structure Models Predicted by Cellular Automaton Approach	Nagai, Masaki (1); Natsume, Yukinobu (2); Lin, Shan (1); Nakahata, Kazuyuki (3)
477	Toward NDT Digitalization: Challenge to Correlating Inspection Locations with NDT Data	Ochiai, Makoto (1); Yamamoto, Setsu (2)
478	Analysis of Transmit-Receive Coil Spacing for Phase-Based Depth Characterization in Eddy Current Array	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)
479	Damage localization in a rod by utilization of guided wave mode separation	Pillai, Anjaly Jayakumar; Kudela, Paweł; Radziński, Maciej; Soman, Rohan; Wandowski, Tomasz
480	Cognitive Robotic System for Adaptive Non-Destructive Inspection with Laser Thermography	Hyla, Bartosz; Ambroziński, Łukasz; Pieczonka, Łukasz

481	NDE of Mechanical Properties of Fatigue Damaged Austenitic Stainless Steel with ECT Signals	Chen, Zhenmao
482	Data-driven integration of non-destructive envelope diagnostics into HBIM for energy-aware digital models of historic buildings	Palladino, Domenico (1); Di Turi, Silvia (2); Calabrese, Nicolandrea (2); Massafra, Angelo (3); Coraglia, Ugo Maria (4)
484	Acousto-Optic Tomography-Holography: a Novel, Sensitive and Quantitative NDT Method	Kerseemans, Mathias (1,3); Debusschere, Cedric (1,2); Van Den Abeele, Koen (2); Ma, Yusheng (1,2)
485	Preservation of Medieval Churches damaged by L'Aquila 2009 and Amatrice 2016 earthquakes: Non-Destructive Techniques in integrated approach.	Totani, Gianfranco (2); Ranalli, Danilo (1); Durante, Claudia (1); del Pinto, Camilla (1); Quintili, Veronica (1)
486	Addressing uncertainties in material parameters for nuclear weld imaging by the development of an adaptive algorithm	Boukham, Ali; BARRAS, Jordan; Marmonier, Maxance; Leymarie, Nicolas
488	Characterization of microstructured steels: from bulk waves to guided waves radiation	Barras, Jordan; Dorval, Vincent; Leymarie, Nicolas; Imperiale, Alexandre; Demaldent, Edouard
489	Applications of AI in non-destructive examinations	tranca, teodor (1); tranca, mircea (2); zeman, raimund (3); ardeleanu, cezar (4)
491	ed Data Analysis for Nondestructive Evaluation	Lindgren, Eric
492	Ultrasonic NDE for Real-Time Monitoring of Vulcanization in Nitrile Butadiene Rubber	Datta, Debasis (1); Mondal, Subhasis (2)
493	AIFI-CCFM-Enhanced MogaNet for Robust Multi-Scale Steel Surface Defect Detection	Ma, Zhiqiang; He, Yonghui; Peng, Tiegeng
494	Non-destructive characterization using Barkhausen noise to measure residual stresses of induction hardened steel components	Holmberg, Jonas (1); Lundin, Per (2); Wendel, Johan (1)
495	Material characterization of additively manufactured aluminum alloy using ultrasonic nondestructive approach	Wang, Xinyan; Zhang, Chao; Fu, Xin; Wang, Jingzhao; Guo, Peiwen; Zhang, Zhiwei; Yao, Liyang
496	Consolidating reliability of guided wave SHM through simulation: application on a bolted panel with static load	Demaldent, Edouard (1); Imperiale, Alexandre (1); Recoquillay, Arnaud (1); Calmon, Pierre (1); Rautureau, Aurélien (2); Swindell, Paul (3)
497	Ultrasonic Imaging of Flaws in Thick-Walled Impeller Test Blocks Using FMC-TFM and PWI	Chinta, Prashanth Kumar; Peip, Robert; Falter, Stephan; Spies, Martin; Zappavigna, Giovanni; Parrotta, Lorenzo
498	DICONDE for dent digital twins: Data standardization for aircraft structural inspections	Jacob, Geo (1); Mhatre, Aditi (1); Merola, Salvatore (2); Grischenko, Evgeny (1); Koschlik, Ann-Kathrin (1); Raddatz, Florian (1); Wende, Gerko (1)
499	Developing an Adaptive Testbed for Robotic Inspection	Murray, Liam (1); Lesthaeghe, Tyler (1); Cherry, Matthew (2); Gillman, Andrew (2); Donegan, Sean (2); Groo, LoriAnne (2)
500	Advanced Ultrasonic Phased Array Inspection System with PaintBrush Technique for the Gapless Testing of Seamless Steel Pipes	Kolkoori, Sanjeevareddy (1); Weise, Thomas (1); Koers, Daniel (1); Jasperneite, Claudia (1); Eggbauer, Franz (2); Lorenz, Friedrich (2)
501	Analysis of Chemical Composition Effect on Electromagnetic Sensor Response During Steel Phase Transformation on the Run Out Table	Kaderli, Esra (1); Zhou, Lei (1); Slater, Carl (1); Gibson, Ian (2); Davis, Claire (1)
502	Temperature compensation for guided wave signals using denoising autoencoders	Newson, Matthew; Fisher, Clément
504	AI in NDT: Hype, History and Realistic Adoption Pathways	Tubrett, Glenn
505	Flexible platform for tube-to-sheet welding ultrasound automated inspection	Monlleó, Laura (1); Cosarinsky, Guillermo (1); Camacho, Jorge (1); Teixeira, Joanna (2); Lerma, Eneko (2); Martin, Alexander (2); González, Ricardo (3)

506	Resonant Eddy Current Sensing for Contactless Monitoring of Lithium-Polymer Cells	Sardellitti, Alessandro (1); Carere, Federico (2); Br, Ahmed Hishman (3); Sangiovanni, Silvia (3); Laracca, Marco (3)
507	Experimental Evaluation of Magnetic Flux Leakage for Railway Non-Destructive Testing	Daga, Alessandro Paolo; Garibaldi, Luigi; Canova, Aldo
508	Opportunities and Criticalities in Infrared Inspection of Photovoltaic Modules by UAVs	Nasri, Hamza (1,2); Riahi, Jamel (1,2); Vergura, Silvano (1)
509	Applications of micro-hollow cathode as a transmitter for air-coupled ultrasonic testing	Gaal, Mate; Solodov, Dmitry; Nazari, Narges
510	Eddy Current Scanner for Non-Destructive Case Depth Evaluation of Induction Hardened Axle Bars and Stem Shafts	Dejnbadi, Hooman
511	Detection of microstructural changes resulting from temperature surges in HP steel tubes from steam reforming furnaces	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)
512	High-resolution 3D ultrasonic imaging of defects with various shapes using piezoelectric and laser ultrasonic system (PLUS)	Ohara, Yoshikazu (1); Fujikawa, Yuto (1); Sugi, Taiyo (1); Hibi, Atsuhiko (2); Miyamoto, Mitsuru (2); Okamura, Takeyuki (2); Suzuma, Toshiyuki (2)
513	Non-Destructive Thickness Estimation of Extreme High-Speed Laser Cladding Coatings on Brake Discs Using Eddy Current and Photothermal Techniques	Carboni, Michele (1); Madkouri, Omar (1); Previtali, Barbara (1); Bruno, Geoffrey (2); Calefati, Paolo (3)
514	Acoustic Resonance Testing (ARS/ARI) for Non-Destructive Evaluation of Cast and Advanced Manufactured Metal Components	Dejnbadi, Hooman
516	Connecting AAS and LLMs for Controlling NDT Devices	Leinenbach, Frank (1); Ardic, Cemil Emre (1); Panchal, Dharm (1); Römer, Florian (1,2)
517	DX-Schema – Standardized modular document system for a “digital-first” quality infrastructure	Leinenbach, Frank (1); Vrana, Johannes (2); Engel, Thomas (3); Eichstädt, Sascha (4); Melzer, Michael (5)
519	Sub-THz Radar Line Camera For Inline NDT Applications	Leuchs, Sven; Krebs, Christian
521	Machine Learning-Based Non-Destructive Evaluation of HDPE Lining Integrity from Ultrasonic Signal Features.	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)
522	Innovative Eddy Current Method and Probe for Detecting Defects in Any Orientation	Carere, Federico (1); Sardellitti, Alessandro (2); Sangiovanni, Silvia (3); Laracca, Marco (3)
523	An Innovative Non-Invasive Method for State of Charge Estimation in Lead-Acid cells via Eddy Current Sensing	Carere, Federico (1); Sardellitti, Alessandro (2); Br, Ahmed Hisham (3); Sangiovanni, Silvia (3); Laracca, Marco (3)
524	Simultaneous Estimation of Multiple Parameters of Metallic Samples via Eddy Current Testing	Sardellitti, Alessandro (1); Mottola, Vincenzo (2); Milano, Filippo (2); Ferrigno, Luigi (2); Tamburrino, Antonello (2); Laracca, Marco (3)
525	An Innovative ECT method for Advanced Corrosion Detection and Characterization	Sardellitti, Alessandro (1); Laracca, Marco (2); D'aguanno, Angelo (2); Mottola, Vincenzo (3); Milano, Filippo (3); Ferrigno, Luigi (3); Tamburrino, Antonello (3)
526	Factors Influencing Corrosion Rate Estimations focusing on Image Stitching on Ultrasound Data	Nichita, Alexandru; Cegla, Frederic
527	Integrated UAV-Based Surface Curvature Analysis and Intelligent Compaction Monitoring for Nondestructive Evaluation of Road Embankment Quality	Kim, Jinyoung; Kang, Jaemo; Lee, Sungeol; Kong, Myungsik; Jeong, Woncheol
528	Integration of a Guided Wave-based SHM System in a full-scale Structural Test	Moix Bonet, Maria (1); Behrens, Tim (1); Eckstein, Benjamin (2); Schmidt, Daniel (1); Wierach, Peter (1)

531	Development of a MEMS Energy-Harvesting Sensor for Corrosion Monitoring in RC Infrastructure.	Nithimethaporn, Nicharin (1); Hashimoto, Katsufumi (1); Iwasaki, Makoto (1); Inuma, Riko (1); Mitsuya, Hiroyuki (2)
532	A Novel Method of Manufacturing Standard Void Specimens for Non-Destructive Testing of Carbon Fiber Reinforced Plastic via Resin Film Infusion Process	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)
533	Non-Destructive residual stress measurement in railway wheels by using ultrasound	Rosafio, Matteo; Sallemi, Damiano; Del Giorgio, Mauro; Buzzella, Tiziano; Sarti, Marco
535	Development of Lamb Wave and CNN-Integrated Damage Identifier for GFRP Composites	Lee, Yonghee (1); Oh, Yong Suk (1,2); Park, Juyeop (3,4); Kang, Donghoon (3)
536	Comparative Analysis of Non-Destructive Methods for Determining the Thickness of Welding Overlay (Cladding) in Alloy 625 and AISI 316	Marasco, Nicola (1); Verdino, Stefano (1); Vignati, Enrico (2); Del forno, Erik (3); Tonali, Dario (4); D'amico, Riccardo (5)
537	Magnetic Testing of coated components with high Dry Film Thickness (> 50 µm) using AC and DC Electromagnetic Yokes	Marasco, Nicola (1); Verdino, Stefano (1); Vignati, Enrico (2); Del forno, Erik (3); Tonali, Dario (4); D'amico, Riccardo (5)
539	Development of an ultrasonic inspection tool for the evaluation and monitoring offshore pipelines with internal HDPE coating	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)
540	Advanced Multivariate Anomaly Detection for Wind Turbines Using SCADA Data and Machine Learning	Daga, Alessandro Paolo; Fasana, Alessandro; Garibaldi, Luigi; Gerbino, Marco; Viale, Luca
542	Advanced Diagnostic Inspection Techniques Supporting Engineering Assessments	Sandon, Stefano (1); Ballestra, Matteo (1); Ramella, Giovanni Federico (2); Zanni, Valentina (3); Ciancio, Romano (4)
543	From Compliance to Prognostics: A Proposal for a New Regulatory Framework Based on NDE 4.0 and Historical Failure Data	SANTORO, FRANCESCO (1); SPINOSO, SALVATORE (2); INFORTUNA, PAOLO (2)
544	Ceramic Coil Design for High Temperature EM Measurements in a Differential Scanning Calorimeter	Wilson, John (1); Jolfaei, Mohsen (2); Fletcher, Adam (1); Zhou, Lei (2); Slater, Carl (2); Davis, Claire (2); Peyton, Anthony (1)
545	EddyWeb – One for All!	Mook, Gerhard; Simonin, Yury
546	AIQuAM3D – Embedded Artificial Intelligence for Quality Assurance in Additive Manufacturing and for Advanced 3D Material Characterisation	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)
550	Guidelines for selecting 2D Matrix PA Probe Configuration for weld inspection: A parametric study	Turcu, Florin (1); Cabirol, Benoit (2); Wendorf, Justin (3); Maclean, Alan (4)
551	Hybrid Multiscale Attention-Based Super-Resolution for Real-Time Transcranial Ultrasound	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)
552	Use GPR analysis for diagnostic of mural paintings.	Napoli, Alessia Francesca; Marchetti, Emanuele
553	Lightweight Super-Resolution Enhanced YOLOv8 for Improving Consistency in Radiographic Defect Detection of Titanium Alloy Weld Seams	Zhang, Zhiwei; Wang, Jingzhao; Zhang, Chao; Wang, Xinyan; Chai, Xuwu; Gao, Jingyuan; Liu, Xiaotong
554	A Comprehensive Framework for Pyroshock Testing of Aerospace Equipment	Viale, Luca; Daga, Alessandro Paolo; Fasana, Alessandro; Garibaldi, Luigi

556	Enhancing Commercial Differential Scanning Calorimetry (DSC) with Embedded Electromagnetic Sensing for In-Situ Monitoring of Tempering Martensite	Aghadavoudi Jolfaei, Mohsen (1); Wilson, John (2); Zhou, Lei (1); Slater, Carl (1); Davis, Claire (1); Peyton, Anthony (2)
557	Development of automated CT performance testing system and algorithm reliability optimization	LUO, Jiawei (1,2); Xiao, Yongshun (1,2)
558	Characterisation of critical microstructures in metals using shear ultrasound	Lello de Almeida, André; Lowe, Michael J. S.; Lan, Bo
561	Deep Learning Method for Defect Detection for Industrial Robot-based Magnetic Particle Inspection	Schmitz, Kevin (1); Römer, Florian (1,2); Heinrich, Matthias (1); Ardic, Cemil Emre (1); Rabung, Madalina (1); Martelli, Samuele (3)
564	Influence of the surface finish of a metal bar related to the ultrasonic surface resolution and the measurement of its roughness	Piazza, Francesco; Di Liddo, Enzo
565	Advanced Phased-Array methods for the automated SAW weld inspection with wheel probes	Würschig, Thomas; Breidenbach, Christof; Chinta, Prashanth Kumar; Falter, Stephan; Ininger, Jörg; Sturm, Christian
566	Fostering Collaboration and Enabling Development in AI4NDE: Available Opportunities and Activities	Osorio, Thiago
567	Human Factors and AI for NDE	Osorio, Thiago
568	Deployment of AI-Assisted Ultrasonic Inspections in the Nuclear Power Industry	Osorio, Thiago
569	Technological challenges in drone based NDT contact inspections	Panza, Simone
570	AI-Assisted Predictive NDT for Identifying High-Risk Zones in District Heating Pipelines	LEE, SUNGYEOL; KANG, JAEMO; KIM, JINYOUNG; KONG, MYEONGSIK
571	AI-Assisted Attribute-Based Screening Framework for Ground-Subsidence Risk Using Underground Utility Information	LEE, SUNGYEOL; KANG, JAEMO; KIM, JINYOUNG; KONG, MYEONGSIK
572	Fully Non-Contact ACUT-Based Crack Depth Evaluation Using Crack-Guided Leaky Rayleigh Modes	Nam, Hyeonwoo (1); Park, Chan Wook (1); Choi, Wonjae (1,2)
573	Possibilities of inspections of NPP tanks and containment liners	Brom, Jaroslav (1); Nebel, Roman (2); Hlaváč, Zbyněk (1)
574	Methodology for monitoring cracking in historical wattle-and-daub ceiling slabs using Infrared Thermography	Cadelano, Gianluca (1); Bortolin, Alessandro (1); Ferrarini, Giovanni (2); Volinia, Monica (3); Grotto, Mario (3)
575	Eddy Current In-Situ Monitoring for Process and Quality Assessment of Additive Manufacturing (AM) Laser Powder Bed Fusion (L-PBF)	Caslli, Arber; Gianneo, Andrea
576	Film Replacement in Radiographic Testing Case Studies from Aerospace Applications	Gianneo, Andrea
577	Handheld ultrasound inspection system for position-resolved 3D imaging on arbitrary surfaces	Römer, Florian (1); Rabe, Ute (1); Werft, Lukas (2); Pahl, Barbara (2); Kallmayer, Christine (2); Friebe, Alex (3); Gebhardt, Sylvia (3); Neubert, Holger (3)
578	Evaluation of Eddy Current Testing Capabilities for Detecting Surface Flaws in Axles at the Manufacturing Stage	Corti, Giovanni (1); Rocchi, Claudio (2); Turla, Fabio (3); Vicat, Francois (4)
579	Implementation of DICONDE for the Storage of Ultrasonic Waveform Data: A Core Enabler for NDE 4.0	Vrana, Johannes (1); Schaefer, Daniel (2); Deutsch, Wolfram (2)
580	Defect Classification in Wire Arc Additive Manufacturing via a Semi-Supervised Teacher-Student Model	Gourakani, Maedeh (1,2); Mineo, Carmelo (2); Cerniglia, Donatella (1); Bertazzo, Andrea (3); Tiso, Federica (3); Avallone, Giovanni (3)
581	Industrial Applications Of Inductive Thermography for Non-Destructive Testing In The Automotive Sector	Cifuentes, Angel; Muniategui, Ander; Jaime-Barquero, Edurne; Gorostegi-Colinas, Eider
582	Smart Contactless Nonlinear Ultrasound Testing – Research With Opto-Acoustical Arbitrary Waveform Excitation	Rudinger, Florian (1); Wallner, Martin (2); Reitinger, Bernhard (1)
583	Feature-Based Machine Learning Approach for Adhesive Joint Integrity Assessment	Jasiuniene, Elena; Samaitis, Vyktintas
584	Pioneering Turbine Blade Inspection: Inductive Thermography as a Game-Changing Alternative to Dye Penetrant Testing	LABOURDETTE, Matilde; DROSSON, Rémy; GOURSOLLE, Thomas

585	Fully autonomous defect detection in 3D-CT data using the example of 3D metal printing.	Gondrom-Linke, Sven; Ramos, Tiago
586	Feasibility of a scalable all-optical network architecture for non-destructive testing of composites	Quesson, Benoit (1); Gonzalez Jimenez, Alvaro (1); Scherino, Lorenzo (2); Zandi, Marie (2); Piras, Daniele (3); de Jong, Wim (2); Cheng, Lun (2); Jansen, Rob (2); van Neer, Paul (1)
587	Early-Stage Structural Behavior Assessment Using Digital Image Correlation	Pandarese, Giuseppe (1); Forlano, Simone (1); Calcagni, Maria Teresa (1); Freddo, Alessia (1,2); Monni, Francesco (1); Quagliarini, Enrico (1); Revel, Gian Marco (1)
588	Applicability of Air-Coupled Rayleigh Waves for Inspection of As-Printed BAAM Components	Dominguez-Macaya, Ander (1); Galarza, Nekane (1); Olaizola, Jon (2); Abete, Jose Manuel (2)
589	From Reactor to Lab: Scaling Neutron Radiography for Industrial NDT Applications	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, Dmitry (1); Toussaint, Alexis (1); van Steenberg, Vincent (2)
591	PAUT integrated process for the examination of pipe fitting transition	Xiang, Kevin; Pinier, Ludovic
593	Neutron and X-ray Tomography for Non-destructive Characterisation of Archaeological Iron Artefacts and Assessment of Conservation Treatment	Cristina, Laura (1); Cocen, Ocson (1,2); Azad, Seren (3); Mannes, David (3); Kaestner, Anders (3); Brambilla, Laura (1)
594	Pose-Informed X-ray Image Deblurring for Drone-Based Wind Turbine Inspection	Meere, Bas; Heijne, Rainier; Bondarev, Egor; Torta, Elena; Chanfreut, Paula; Antunes, Duarte
596	Acoustic Emission Monitoring of Corrosion under Thermal Fluctuations	Larocca, Camilla Bahia (1); Bogomolov, Denis (1); Prokofyev, Mikhail (2); Proyer, Armin (3); Marzani, Alessandro (1); De Marchi, Luca (1)
597	Austenitic Welds Phased Array Ultrasonic Inspection Modeling and MAPoD Study	FOUCHER, Fabrice
598	Development of PAUT Technique for Far-Side Examination of Stainless-Steel Piping Welds in NPPs	Kwak, Dongryul; KIM, Younglae; Jee, Donghyun
599	Augmenting NDT: How XR Supports Data Acquisition, Interpretation, and Reporting	Conniffe, Daniel (1); Zhu, Ruoxuan (1); Fletcher, Adam (1); Peyton, Anthony (1); Skelton, Jim (2)
600	Assessing the Accuracy and Precision of XR Tracking for NDT Inspection	Conniffe, Daniel (1); Fletcher, Adam (1); Peyton, Anthony (1); Skelton, Jim (2)
601	Towards an Immersive Digital Twin Based Robotic Inspection Framework for Confined Spaces	Tefera, Yonas Teodros (1); Shaaban, Mohamad (1); Gao, Penggang (1); Mennuti, Canio (2); Caldwell, Darwin (1); Deshpande, Nikhil (3); Ortiz, Jesus (1)
602	Lift-off Trajectory Analysis for Eddy Current Detection of Millimetre-Scale Cracks in Curved Geometries	Yang, Jingyuan (1); Ma, Qiuping (2); Tian, Guiyun (3); Camerini, Cesar (4); Yi, Qiuji (1)
603	Detection of Axial Cracks in Stainless Steel Welds Using PAUT Techniques	Kim, Younglae; Kwak, Dongryul
604	Non-Destructive Evaluation of Wood Properties on Standing Trees for Operational Tree Breeding	NGUYEN, THI HAI HONG (1); WU, HARRY (2)

605	A Feasibility Study on MBN-Based Stress Evaluation of Cable-Based Bridges	Park, Kwang-Yeun; Lee, Joo-Hyung; Joh, Changbin; Choi, Ji-Young; Kwahk, Imjong
606	Comparative Evaluation of Ultrasonic Techniques for the Inspection of Aeronautical Sandwich Composites	Barbieri, Alessia (1); Monti, Franco (2); De Angelis, Simona (1); Turconi, Mario (2)
607	Wooden academic heritage preservation by low-cost digital survey and thermographic analysis	Pavignano, Martino (1); Volinia, Monica (1); Cadelano, Gianluca (2); Giroto, Mario (1); Bocconcino, Maurizio Marco (3); Vozzola, Mariapaola (3); Zich, Ursula (1)
608	Hybrid Data Fusion for Ultrasonic Guided Wave Tomography of Containment Liner Plates	Sakhabiev, Igor (1); Li, Maolin (1); Cho, Younho (2)
609	From Magnetic Particles to Eddy Current Inspection: How to Transform Surface Inspection	Doubek, Ondrej
611	Fully Automated Ultrasonic Testing of Bearing Rings for Railway Applications	Žbánek, Petr
612	Advanced Methodology of Ultrasonic Testing (UT/PA) of Thin-Walled Tubes: Replacement of Radiographic Inspection and Efficiency Improvement of NDT Processes	Žbánek, Petr
613	Advanced Automated PAUT Systems Utilizing Special Immersion Testing Techniques	Salač, Radek
614	Advanced Automated Ultrasonic Systems Utilizing Modern Technologies	Salač, Radek
615	Embedded deep learning system for reliable operator support in TFM-based weld inspection	Guyon, Robin; Newson, Matthew; Roué, David; Gervais, Auguste; Miorelli, Roberto; Fisher, Clément
616	The Evolution and Intelligence of Imaging in NDT: From Visual Inspection to AI-Driven Diagnostics	Vergura, Silvano
617	Numerical Modelling of Photon-Counting Detectors for Industrial Radiography Applications	FERNANDEZ, Roman (1); TOURON, Anthony (2)
618	Optimising Synthetic Data for Machine Learning Applications on Surface Breaking Thermal Fatigue Cracks	Gaffney, James (1); Beckingham, Thomas (2); Colquitt, Daniel (1); Daniels, Will (1,3); Haslinger, Stewart (1)
619	An improved EIS for battery state estimation: a non-invasive measurement approach	Miele, Alessio; Milano, Filippo; Molinara, Mario; Ferrigno, Luigi
620	Integrity inspection of a thermoelectric power plant and elimination of dissimilar metal welds	VASILE, ROBERTA (1); IOVENE, RAFFAELE (1); DI GIACOMO, MARCELLO (2); CHENDI, MARINO (2)
621	Leveraging Physics-Constraint Encoder-Decoder Models and Masked Autoencoders for Infrared Temperature Prediction in Tokamaks	Cisse, Cheikh. M. B. (1,2); Miorelli, Roberto (1); Aumeunier, Marie-Hélène (2); Juven, Alexis (2)
622	Deep learning based automatic analysis of multimodal TFM data in elbow-tube weld junctions in nuclear	Miorelli, Roberto (1); Roue, David (1); Robert, Sébastien (2)
623	Observation of electrolyte dynamics in Li-ion batteries via In-situ Computed Tomography	Salplachta, Jakub (1); Stravova, Zuzana (1); Ballai, Gergő (2); Sebok, Dániel (2); Kukovecz, Ákos (2)
624	Simple approach for testing distance detection during 3MA-II lift-off measurements on moving components based on PCA and SVM	Böttger, David (1); Gabi, Yasmine (2)
626	Towards non-destructive prediction of porosity-induced mechanical property variations in L-PBF AlSi10Mg via pulsed laser thermography	Dell'Avvocato, Giuseppe (1); Pocetta, Veronica (1); Bison, Paolo (2); Rossi, Stefano (2); Galletti, Umberto (3); Ferrarini, Giovanni (2)
627	Selection of optimal projection angles for the measurement of wall thicknesses in turbine blades by few-view X-rays	Betancur, Julian (1); Fragnaud, Cedric (2); Roux, Stephane (2)
628	Non-Destructive Testing of Resistance Spot Welds by Magnetic Evaluation	Mathiszik, Christian; Koal, Johannes; Schmale, Hans Christian; Füssel, Uwe

629	Improved sensitivity fiber optic readout system based on Pi-Shifted Fibre Bragg Gratings and Mode Locked Lasers for composite structures inspection	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)
630	Fatigue Damage Is Not a Crack: Why NDT Must Inform Decisions, Not Just Detection	GARCIA TORRES, FRANCISCO
632	Non-Destructive Evaluation of Rotary Friction Welded CuCrZr–AISI 316 Joints for Fusion Applications	Bergamini, Fabio (1); Fava, Alessandra (1); Cognini, Francesco (1); Giuseppe, Barbieri (1); Tati, Angelo (1); Rossi, Paolo (2); You, Jeong-Ha (3)
633	Evaluation of defect measurement uncertainty in welds of polyethylene pipes using Time-of-Flight Diffraction	Hlabets, Serhii (1); Eremenko, Volodymyr (1); Mirchev, Yordan (2)
636	Robust virtual encoder: Using ultrasound data for compensation of depth variations in camera-based odometry	Dário, Matheus F. (1); Caetano, Fernando H. R. (1); Santin, Daniel (1); Guerra, Henrique M. (1); dos Santos, Huriel A. (1); Kalid, Thiago E. (1); Prado, Tatiana de A. (1); Pires, Gustavo P. (2); Passarin, Thiago A. R. (1)
637	Benefits of new Finite Elements Models available for Ultrasonic NDE simulations	FOUCHER, Fabrice (1); DUDOUS, Jerome (1); LEYMARIE, Nicolas (2); DEMALDENT, Edouard (2); LE BERRE, Stéphane (2); GINZEL, Edward (3)
638	Non-destructive fault detection in surface hardening technology for concrete floors	Moj, Mateusz; Chmurzyńska, Lucyna
639	The Digitalized Management of Heritage- Integrating NDT with HBIM across Industry 4.0 to 6.0	Ghiga, Dan -Alexandru (1); Savin, Adriana (2); Tudosa, Petrica (3); Stanca, Denis (4)
640	Split-D Differential Eddy Current Probes for Evaluating Rolling Contact Fatigue Defects in Railway Rails	Serraiocco, Leandro (1); Fava, Javier (1,2); Gonzalez, Ramiro (1); Dominguez, Benicio (1); Rolla Napal, Joaquin (1); Ruch, Marta (2,3)
642	Generating Synthetic Ultrasonic Testing Data with Deep Learning: Comparing Simulated and Deep Learning-Based Flaw Responses	Osorio, Thiago; Watson, Caleb
643	Assessing Cultural Heritage with NDT: Julio Escámez's 'Principio y Fin' Mural	Vargas, Rodrigo (1); Barrera, Mario (1); Bastias, Gonzalo (1); Lisboa, Jaime (1); Benavente, M. Angela (2); Reyes, Rodrigo (3)
646	Acoustic Shearography for Pipeline Inspection	Zhang, Lei; Tham, Zi Wen; Chen, Yi Fan
647	Human-Technology Synergy in NDT: Boosting Reliability in Safety-Critical Sectors	Doshi, Karan
648	Prediction of Grain Orientation from Thermal Maps Using a Data-Driven and AI Approach	Bhemani, Nishi (1); Gantala, Thulsiram (2); Balasubramanian, krishnan (1)
649	Transferring Qualification acc. to EN 4179 / NAS 410 qualification standards	Zavadil, Tomas
650	Static and Dynamic Characterization of the Historic Truss Bridge over the Po River at Becca: A Comparative Analysis with the Results of the 1980s Investigation Campaign	Di Vita, Calogero; Campori, Giorgia; Esposito, Diego; Insana, Daniele; Mucciarone, Antonio; Ranedda, Luca
651	Strengthening NDT in Civil Engineering through Training and Harmonized Qualification Frameworks: Experience from an IAEA–RCA Initiative	Zainal Abidin, Ilham Mukriz (1); Maghella Seminario, Gerardo (2); Phaokhamkeo, Khemphone (2)
652	Implementing Annual Proficiency Review acc. to EN 4179 / NAS 410 Qualification Standards	Zavadil, Tomas
653	AI qualification and implementation in RPVHI in Sweden	Samuelsson Jerndahl, Rickard (1); Virkkunen, Iikka (2); Holmer, Gustav (1)
654	TFM inspection in lieu of RT on welds of thin WT pipes in stainless steel	Bruno, Angelo; Miniello, Pasquale
656	Analysis of Degradation Mechanisms in the Deck Slab of the Lussari Viaduct Using Non-Destructive Testing: A Ground Penetrating Radar Approach	Campori, Giorgia (1); Di Vita, Calogero (1); Esposito, Diego (1); Insana, Daniele (1); Mucciarone, Antonio (1); Pozzi, Anna Marta (2); Ranedda, Luca (1); Testa, Davide (3)

657	Beyond Defect Detection: Integrating NDT with Fracture Mechanics for Life Extension	Cho, Younho
659	Nano-Destructive Chromatographic Analyses of Cultural Heritage Royal Purple Dyeings	Koren, Zvi
660	Re-Machine – Multimodal inspection of wind-turbine bolts for reusability	Schmitz, Kevin; Schwender, Thomas
661	NDE 4.0 and Artificial Intelligence: Partnership and Evolution of AI Applications	MARTINEZ-OÑA, Rafael
662	Crack characterization in ferromagnetic steel using inductive thermography	D'Accardi, Ester (1); Dell'Avvocato, Giuseppe (2); Palumbo, Davide (1); Gaietti, Umberto (1); Oswald-Tranta, Beate (3)
663	Comparing infrared thermography and digital image correlation for fatigue crack initiation detection in Cold-Spray repaired aluminium specimens.	Chaudhuri, Somsubhro (1); Kunji Purayil, Sruthi Krishna (1); Madia, Mauro (1); Nielsen, Sören (2)
664	Improving Image Quality in Ultrasonic Inspection for complex material Using Custom Emission	ABIRIZK, Ralph
668	The strategic role of Computed Tomography in the conduction of Failure analysis.	Oneda, Benedetta; Giroletti, Igor; Rossi, Stefano
671	Emissivity Compensation for Thermographic Inspection of Grey Cast Iron Components	Hirsch, Philipp Daniel; Kunji Purayil, Sruthi Krishna; Scheuschner, Nils; Lecompagnon, Julien; Krankenhagen, Rainer; Ziegler, Mathias
672	Human Factors in the Ultrasonic Testing of Railway Axles: Effects of Rare Signals and Automation Support	Bertovic, Marija (1); Hegeler, Momo (1,2); Lichtnekert, Stefan (1,2); Onnasch, Linda (2)
673	Neutron-based methods for Heritage Science: a case study on a Nuragic figurine	Cataldo, Matteo (1); Clemenza, Massimiliano (1); Britto, Sylvia (2); Scherillo, Antonella (2); Canu, Nadia (3); Marcucci, Giulia (1,2,4); Sipala, Valeria (5); Billeci, Bruno (5); Oliva, Piernicola (6)
675	A Multi-scalar NDT Workflow for the Diagnostic Knowledge Project of Stratified Architectural Heritage	Troja, Samuele (1); Volinia, Monica (2); Grotto, Mario (2)
676	Residual Prestress in Post-Tensioned Concrete Structures: Review, Laboratory and In-Situ Experiments	Mucciarone, Antonio (1); Campori, Giorgia (1); Di Vita, Calogero (1); Esposito, Diego (1); Lofrano, Egidio (2); Insana, Daniele (1); Raneda, Luca (1)
679	Human Factor and Communication Processes in Technical Training: A Systemic Approach to Adult Learning in Non-Destructive Testing	Pomo, Marina (1); Iturriaga Sauco, Emma Selene Ixchel (2)
680	Study of training strategies to improve performance for defect detection in aeronautical castings X-ray images	Tornero Martín, Pascual (1); García Pérez, Alberto (1); de la Escalera Hueso, Arturo (2); Montoya Rodriguez, David (2); Nicsesa Usandizaga, Aimar (1)
681	Automatic 3D analysis of asphalt mixtures using high-speed CT & AI segmentation	Cuadra-Rodríguez, Daniel (1); Solorzano, Eusebio (1); Palomo Luis, Lorena (2); Grau, Jose Simon (2); Garcia Rabadan, Victor (3); Motos Cascales, Gloria (3)
682	Application of full waveform inversion to ultrasonic data	Suchkova, Alina; Niederleithinger, Ernst
684	Rotor-Bearing Hydrodynamic Modeling for Orbit-Based Diagnostics in Hydropower Units	Abdullaev, Bekhzod (1); Barbera, Riccardo (1); Daga, Alessandro Paolo (1); Garibaldi, Luigi (1); Cuvato, Damiano (2); Bonjean, Manuel (2); Sannolo, Antonino (2); Artaz, Lorenzo (2)
685	Automated Damage Detection in Carbon-Fiber Reinforced Polymers Using Air-Coupled Ultrasound and Neural Networks	Popovych, Olga; Lai, Kher Wei; Menendez Orellana, Ana; Grosse, Christian
686	Exploiting Mismatched Filter for Barker Code Pulse Compression Thermography	Zito, Rocco (1); Lecompagnon, Julien (2); Laureti, Stefano (1); Ziegler, Mathias (2); Ricci, Marco (1)
687	New Concepts for Automated Railway Track Inspection	Lutter, Sven; Schneibel, Gerald
688	Ultrasonic Testing of Projection-Welded Foils for Bipolar Plates	Hielscher, Franz (1); Weber, Martin (2); Koal, Johannes (1); Schmale, Hans Christian (1); Hyvönen, Jere (2); Salmi, Ari (2)

689	Projection-Domain Defect Segmentation for Accelerated Quality Assessment in Industrial Computed Tomography	Schanz, Tim; Tenschler-Philipp, Robin; Simon, Martin
690	A comprehensive technical review of the non-destructive methods for rail inspection	Garibaldi, Luigi; Fallahi, Nasim
691	Non-destructive determination of crack size and crack growth in butt welds of wind turbines: AE, PAUT and ET in vibration fatigue tests	Barton, Sebastian (1); Gansel, René (1); Feld, Lea (1); Collmann, Mareike (2); Maier, Hans Jürgen (1)
692	XXL high-resolution digital radiography: A solution for large-format industrial parts and artworks	Solorzano, Eusebio; Cuadra-Rodriguez, Daniel; Monzon de Castro, Jorge
693	Microfocus Gantry CT – Innovative Computed Tomography for Use in Research and Industry	Luebbehuesen, Jens
694	Optimization of the magnetizing head and excitation conditions for detecting grinding burns using the Magnetic Barkhausen Noise	Cuenca-Ariza, Mikel (1,2); Martinez-de-Guereñu, Ane (1,2); Gurruchaga, Kizkitza (1,2)
695	GPU-accelerated Phased-Array Ultrasound Scanner for Integration of AI/ML methods	Lewandowski, Marcin; Walczak, Mateusz; Jarosik, Piotr; Karwat, Piotr
696	Stress Detection System Based on Magnetic Coupling Self-Resonant Frequency Sensing	yang, geng; liu, yi; gao, bin; liu, dong
698	ITZ characterization on thermally damaged glass beads concrete by diffuse ultrasound	Ramaniraka, Manda
699	Grey-Box Digital Twin of a Pelton Hydropower Unit: Characterisation for Diagnostic Applications	Barbera, Riccardo (1); Daga, Alessandro Paolo (1); Garibaldi, Luigi (1); Cuvato, Damiano (2); Bonjean, Manuel (2); Sannolo, Antonino (2); Artaz, Lorenzo (2)
700	Muonic Atom X-Ray Emission Spectroscopy (μ XES) for Cultural Heritage: The INFN-CHNet experience	Monza, Paola (1,2)
701	The NDE Value Alliance: Architecting the Trust and Interoperability Framework to Accelerate NDE 4.0 Through Collaborative Standardization	Vrana, Johannes (1); Singh, Ripi (2); Bouma, Tjibbe (3); Westendorp, Niels (3); Haßdenteufel, Holger (4); Valeske, Bernd (5)
702	Defect segmentation using deep learning to reduce the complexity of pulsed thermography data	Grimm, Julian; Mayr, Günther; Zauner, Gerald; Mayr, Gernot
703	Non-destructive Characterization of the Curing Process of Thick-Film Adhesive Bonds using Transverse Ultrasonic Waves	Scholle, Greta; Mathiszik, Christian; Hielscher, Franz; Koal, Johannes; Schmale, Hans Christian
704	The Evolution of NDT Documentation: Establishing a Machine-Readable Language for NDE 4.0 through the DX-Schema Project	Vrana, Johannes (1); Leinenbach, Frank (2); Engel, Thomas (3); Eichstädt, Sascha (4); Melzer, Michael (5)
706	Self Learning Anomaly Detection on a Multidimensional Feature Space	Sanlitürk, Oguzhan; Schmitz, Kevin
707	Super-Resolution Microcomputed Tomography for Porous Aluminium Foams	Senck, Sascha; Nepelius, Lukas; Weinberger, Patrick; Höglinger-Rauscher, Markus; Glinz, Jonathan
708	Pulsed Eddy-Current Sensor Configurations for Structural Health Monitoring of Bolt-hole Wing-skin Defects	Punter, Will; Hughes, Robert
709	Recommendations for the Human-Centred Implementation and Acceptance of Advanced Technologies in Non-Destructive Testing	Bertovic, Marija (1); Berretta, Sophie (2); Trela, Christiane (3)
710	Nonlinear Coda Wave Interferometry: Preliminary results into using ambient noise as pump	SHAABANI, Shilan (1); MORA, Pierric (1); SHOKOUHI, Parisa (2); DURAND, Olivier (1); ABRAHAM, Odile (1)
711	Eddy Current and Ultrasonic Near-Surface Flaw Detection in Additively Manufactured Ti-5Al-5V-5Mo-3Cr	Halliday, Brendan (1); van Herpt, Kate (1); Bajgholi, Mohammad E. (2); Eastmure, Allyson (1); Liu, Fan (3); Underhill, P. Ross (3); Mandache, Catalin (4); Krause, Thomas (3)
712	Effect of Sandwich Honeycomb Core features on Thermography Inspection with Pulsed Optical Excitation	DAHMEINE, Fethi (1); MAILLARD, Samuel (1); FROUART, Jean-Nicolas (1); BAILLARD, André (2)
713	UT testing of hollow railway axles - Presentation of the Gilardoni Boreaxle machine BAT4	Sallemi, Damiano; Rosafio, Matteo; Del Giorgio, Mauro; Buzzella, Tiziano; Sarti, Marco

714	Non-Destructive Assessment of Historic Concrete Elements Using GPR and Ultrasonic Tomography: NUK case study (Slovenia)	Žarkovič, Zala (1,2); Bregar, Rok (1); Šajna, Petra (1,3); Dolenec, Sabina (1,3)
715	YOLO-Based Detection of Small Inclusions in Radiographies of Composite Parts	El Younoui, Ilyas (1); Mealier, Anne-Laure (1); Lecoeuvre, Axel (2); Griselin, Nicolas (2)
716	Principle and Instrument of Corrosion Detection by Electromagnetic Imaging under the Concrete Overlay	WU, XinJun; Gong, JiaWei; Zhai, FangHao; Zhang, WenLong
717	Challenges of remote camera MPI/FPI inspections	Šnír, Miroslav; Backo, Patrik; Salač, Radek
720	Strengthening Global Capacities in Non-Destructive Testing for Industry, Cultural Heritage, Civil Engineering and Disaster Recovery: Recent Programmatic Developments at the IAEA	Affum, Hannah Asamoah; Seminario, Gerardo Maghella; Liu, Shangyuan
721	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	Aloisi, Valentina; Tschechne, Stephan; Costa-Santos, Edson; Wojek, Christian
722	Visual testing of external surfaces of equipment using a drone	Augugliaro, Giuseppe; Artenio, Emanuele; Giacobbe, Francesco; Balistreri, Riccardo
724	RopeWatcher: Advancing Predictive Maintenance through Continuous Magneto-Inductive Rope Monitoring	Vusini, Bruno; Rossi, Daniel; Furno, Enrico
725	Training 3D AI models for PAUT: Performance, Data Needs, and Deployment Considerations	Rhéaume, Richard
726	Periodical checks for industrial applications of active thermography	Maillard, Samuel (1); Frouart, Jean Nicolas (1); Lasjaunias, Benoit (1); Baillard, André (2); Decultot, Florent (2)
727	First approach of IR camera calibration dedicated to NDT Application	Maillard, Samuel; Frouart, Jean Nicolas
728	Integration of non-destructive methods for investigating the conservation state of Fort Monte Antenne in Rome	Calicchia, Paola (1); Camassa, Antonio (1); Spadafora, Giovanna (2); Mazzoletti, Giulia (3); Foppoli, Dario (3)
730	Measurement of the thermal resistance of through cracks. A simple method based on flying spot instrumentation	Lahens, Thomas (1,2); Batsale, Jean-Christophe (1,2); Sommier, Alain (1,2)
731	Efficient Transformers for X-Ray NDT in limited data scenarios	Ghalas, Ihsane; Vandoni, Jennifer
732	Active thermography with inductive excitation for grinding burns detection - Application to aircraft landing gear components -	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)
733	Complex surfaces profilometry by splines estimation	AYISAH, Janice Estelle (1,2); LAROUCHE, Nans (1); HUNEAU, Clément (2); BOURGUIGNON, Sébastien (2); IDIER, Jérôme (2); CARCREFF, Ewen (1)
736	Physics based synthetic data generation for nondestructive testing applications	Reboud, Christophe; Miorelli, Roberto; Touron, Anthony; Leymarie, Nicolas
737	Assessing the potential of advanced imaging with low frequency Rayleigh waves: from single beam A-scan to TFM and Phase Coherence Imaging	Turcu, Florin (1); Côté-Vachon2, Raphaël (2)
738	Eddy Current Array for Inspecting J-Welds on the Reactor Vessel Head in Nuclear Power Plants	Tremblay, Charles; Loffredo, Sergio; Bouchard, Mathieu
739	Non-Destructive Tests on DLP-Based 3D-Printed h-BN/Graphite Polymer Composites	Fortunato, Marco; Tati, Angelo; Mirabile Gattia, Daniele
740	In-line X-ray inspection of medium density fiberboard mattress	Zanettini, Silvia (1); Zambelli, Nicola (1); Sarzi-Amadé, Nicola (1); Ferrarini, Paolo (1); Cavaliere, Davide (2); Travaglia, Antonella (3)

741	Shaping the future of thermography: Standardization as a bridge between innovation and application	Ziegler, Mathias (1); Aderhold, Jochen (2); Amiel, Stéphane (3); Bouteille, Patrick (4); Dell'Avvocato, Giuseppe (5); Galiotti, Umberto (6); Gorostegui Colinas, Eider (7); Huillery, Richard (8); Jakobi, Ingmar (9); Keller, Andreas (10); Maillard, Samuel (11); Mayr, Günther (12); Mund, Maite (13); Müller, Daniel (14); Oswald-Tranta, Beate (15); Straka, Vaclav (16); Svantner, Michal (17)
743	Multi- and Hyperspectral Thermography for Inline Quality Assurance in Metal Additive Manufacturing	Altenburg, Simon J.; Hilberg, Alec; Walter, Tina; Breese, Philipp Peter
745	Proactive Technical Monitoring in Local Public Transport companies: practices and future outlooks @ Azienda Trasporti Milanesi	Cassinelli, Giuseppe; Simino, Andrea
747	Recent advances in orbital weld inspection using Eddy Current Array Testing	Bouchard, Mathieu; Thérout, Louis-Daniel; Loffredo, Sergio; Haddad, Alain; Grond, Sergio
748	Reducing Inspection Ambiguity from Degraded A-Scans in Ultrasonic Spot Weld Analysis	Baradarani, Aryaz (1,2); MaeV, Roman Gr. (1,2)
749	EPH-iFNO: Self-Evolving Physics-Attention Heads with Fourier Neural Operators for Virtual-Wave Inversion	Yi, Qiuji (1,2); Wang, Dong (3); Tian, GuiYun (2); Zito, Rocco (4); Laureti, Stefano (4); Burgholzer, Peter (5); Ricci, Marco (4)
750	Logitom-casting: AI powered automated X-ray tomography processing software for quality control	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)
752	Embedded Super-Resolution Framework for Ultrasonic Spot Weld Inspection	Baradarani, Aryaz; MaeV, Roman Gr.
753	AI-Enhanced X-ray Tomography for Quantitative Crack Characterization in Industrial Materials	Terzi, Sofiane; Nguyen, Duy; Neffati, Dajja; Autret, Awen; Fayard, Barbara
754	Investigation of the changes in the mechanical properties of chloroprene rubber (CR) under thermal oxidation aging by ultrasonic techniques	SU, Pincheng; TINARD, Violaine; FRANCOIS, Pierre; FOND, Christophe
755	Provenance Investigation of Cultural Heritage materials with Ion Beam Analysis	Magalini, Marta (1); Guidorzi, Laura (1,2); Re, Alessandro (1,2); Lo Giudice, Alessandro (1,2)
757	BIM oriented Non-Destructive Testing of a reinforced concrete building	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)
758	Integrating NDT results into BIM for Social Housing Renovation: The ReHouse Project methodology	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)

759	Torque Evaluation of Automotive Connecting-Rod Bolts Using Piezoelectric Sensors and Contact Acoustic Nonlinearity Methods	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, Mastrorilli (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)
760	Suppression of geometrical artifacts from acoustic lenses through low-rank approximation	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)
761	Position- and direction-dependent 3D spatial resolution evaluation for Computed Tomography using extended Modulation Transfer Function analysis	Movahedi, Anahita; Butzhammer, Lorenz; Hausotte, Tino
762	Deep Learning-Based Spatial Coherence Estimation for Ultrasonic NDT	Vasconcellos, Gabriel O.; Dário, Matheus F.; Prado, Tatiana de A.; Pipa, Daniel R.
763	mini-auspex: a Python library for ultrasonic data import, post-processing and imaging	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)
764	Advances in Ultrasonic Corrosion Mapping Through Integrated Acquisition Architectures	Zottig, Federico (1); Thibault, Cyril (2)
765	Modeling and removal of electronic crosstalk effects in ultrasound signals by deconvolution	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)
766	Heat Exchanger Tube Inspection's Challenges and Solutions	alzahrani, salah
767	Navigating Human-AI Tensions in Non-Destructive Testing: A Human-Centered Approach to AI Implementation	Berretta, Sophie
768	Machine learning-driven flaw detection for ultrasonic pipe inspections with acoustic lens	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)
770	Vibration Analysis of a Structure with Plan Irregularity Using the Frequency Domain Decomposition Method	Ortiz Galindo, Kevin Anthony; Aspilcueta Asencios, Manuel Uriel; Costilla Cruz, Licelly
771	Evaluation of the variation in NDT results in reinforcing bars of concrete slabs, subjected to accelerated corrosion processes	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)
772	Calibration of Bragg Edge Neutron Transmission Analysis and Characterization of Ancient Bronze Mirrors from Magna Graecia	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, Ranggi (3); Grazzi, Francesco (4); Elia, Diego (5); Meirano, Valeria (5,6); Sudano, Fabrizio (7); Trunfio, Elena Rita (8); Di Martino, Daniela (9)

773	Assessment of void volume in post-tensioning ducts via the vacuometric technique	Felicetti, Roberto
774	Non-Destructive Testing of Lifting Equipment: Assessing Residual Capacity and Ensuring Operational Safety	Longo, Roberto; Diano, Maurizio; Fabiano, Raffaele; Donato, Raffaele; Badolato, Fabio; Cosentini, Anthony
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780	Traceability of Manual NDT scanning not using encoded scanners	MERLE, Jean-Philippe (1); POGUET, Jérôme (2)
782	Computational Modeling Parameters to Consider when Reproducing GPR Data as it Applies to Bridge Decks	Martino, Nicole (1); Maser, Ken (2); Birken, Ralf (3); Wendland, Camila (4)
783	Ultrasonic Probe Mimicking Technique and its Application to Porosity Measurement in Composite Materials	Walter, Julien (1); Beausoleil, Alexandre (1,2); Arès, Olivier (2)
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789	Integrated Non-Destructive Evaluation of Bacteria-Based Self-Healing Concrete	Sukprasit, Krit; Nitta, Keisuke; Hashimoto, Katsufumi; Sugiyama, Takafumi
790	The Decoupling Mechanism of ECT-EMAT Coupled Signals Governed by Coil Coupling Configuration	Jiao, Daokun; Tang, Qin; Gao, Bin
791	Compact UWB Antenna-Based SFCW Radar with Fast Delay-and-Sum Algorithm for Concrete Scanning	Lee, Joo-Hyung (1); Jeong, Gyeongyong (2); Cho, Keunhee (1); Choi, Ji-Young (1); Lee, Moon-Que (2); Joh, Changbin (1)
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794	Finite element simulations and their validation for inductive thermography	Oswald-Tranta, Beate; Ehrenberger, Jean-Marie
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802	Integrated Non-Destructive Testing Concept for Type 4 Hydrogen Storage Tanks	Won, Soonho (1); Lee, Hak-Sung (2); Schulze, Martin (3); Schulze, Till (3); Heuer, Henning (3)
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804	A Novel Method for Fatigue Crack Size Quantification in Spacecraft Structures under Variable Temperature Environment Based on Information Entropy	Zhang, Xiaozhen; Fan, Chengguang; Jiang, Kunyou; Wu, Zongyu; Zhao, Yong
806	Eddy current testing of a carbon fiber blade edge	Rudolfova, Marie
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