

ICTMS 2022

5th International Conference on Tomography of Materials & Structures
27th June- 1st July 2022, Grenoble, France

Poster Session



Dear colleagues, dear ICTMS participants,

On behalf of the local organizing committee, we are very happy to welcome you to the 5th International Conference on Tomography of Materials and Structures (ICTMS2022) in Grenoble after Ghent, Quebec, Lund, Cairns. After these COVID periods with travel restrictions, we are really happy to welcome you in person in 2022 instead of 2021.

The scientific programme includes oral presentations in two parallel sessions, six keynotes and two poster sessions. We would like to thank all those involved who helped us to put together a very rich conference programme. In particular, we are grateful to the six keynote speakers: Alexandra Pacureanu (ESRF, France), Joost Batenburg (University of Leiden, The Netherlands), Christian Schlepütz (PSI - SLS, Switzerland), Stephen Hall (Lund University, Sweden), Karen Chen-Wiegart (Stony Brook University, USA) and Jean Susini (Soleil, France) and to our speakers (oral and poster). Thank you all!

We would also like to thank all our sponsors: CNRS, UGA, G-INP, Fed 3G, ILL, InGe'Lyse, INSA de Lyon, Grenoble Alpes Métropole, IntACT, ESRF-Streamline, ILL, MATH2MARKET, DRAGONFLY, TESCAN, NOVITOM, ZEISS, Reactiv'IP, RX Solutions, xnovotech, Excillum, Neoscan, Decathlon, Brucker. Thank you!

We wish you all a stimulating and successful conference.

With kind regards,

Eric and Sabine



Theme 1: Acquisition

- 01 CHARACTERISATION AND CALIBRATION OF A PHOTON COUNTING IMAGE SENSOR FOR TOMOGRAPHY

Bornert Michel, Aïmedieu Patrick, Xie Ruiling, Brisard Sebastien



- 02 DETECTION AND QUANTIFICATION OF OUT-OF-PLANE FIBER WAVINESS BY X-RAY DARK-FIELD RADIOGRAPHY

Glinz Jonathan, Thor Michael, Schulz Joachim, Kastner Johann, Senck Sascha



- 03 DISTINGUISHING BIOFILMS FROM WATER USING X-RAY MICRO-COMPUTED TOMOGRAPHY

Schroer Laurenz, De Kock Tim, Balcaen Tim, Kerckhofs Greet, Folens Karel, Boon Nico, Cnudde Veerle



- 04 HIGH-CONTRAST NEUTRON IMAGING FOR VISUALISING MICRO-SCALE POROUS MATERIALS

Naver Estrid, Willendrup Peter, Knudsen Erik Bergback, Mokso Rajmund, Ostergaard Maja, Birkedal Henrik, Schmidt Soren, Theil Kuhn Luise



- 05 TOWARDS STRAIN TOMOGRAPHY USING NEUTRON BRAGG EDGE DATA

Ametova Evelina, Fogarty Kyle, Burca Genoveva, Korsunsky Alexander, Schmidt Soren, Withers Philip, Lionheart William



- 06 OPTIMIZING SPATIAL RESOLUTION FOR FASTER XCT ACQUISITION

Zwanenburg Evelien, Williams Mark, Warnett Jason



- 07 CHARACTERISATION OF SURFACE ROUGHNESS DURING LASER POWDER BED FUSION ADDITIVE MANUFACTURING BY IN-SITU X-RAY IMAGING

Bhatt Alisha, Huang Yuze, Leung Chu Lun Alex, Soundarapandivan Gowtham, Marussi Sebastian, Shah Saurabh, Atwood Robert, E. Fitzpatrick Michael, K Tiwari Manish, Lee Peter



- 08 CO₂ CAPILLARY TRAPPING IN A MALAYSIAN CARBONATE

Menke Hannah, Maes Julien, Singh Kamaljit



09	DIFFERENTIAL XCT ASSESSMENT OF CRACK PROPAGATION IN THE SANDSTONE <i>Kytyr Daniel, Fila Tomas, Zlamal Petr, Vavrik Daniel, Vavro Martin, Vavro Leona</i>	
10	IN SITU HEATING FOR LABORATORY BASED NANOSCALE X-RAY MICROSCOPY <i>White Robin, Kelly Stephen, Gueninchault Nicolas, Leibowitz Martin, Kalirai Sam, Tordoff Benjamin, Hosseinkhannazer Hooman</i>	
11	IN-SITU TIME RESOLVED SYNCHROTRON TOMOGRAPHY AT DIAMOND I12 WITH PRESSURE AND TEMPERATURE <i>Atwood Robert</i>	
12	SAMPLE ENVIRONMENT FOR IN-SITU 4D SRXCT OF SOIL WATER RETENTION <i>Rosas Ferreira Talita, Belotti Perez Harelline, Schubert Ruiz Costa Gabriel, Fernando Pires Luiz, Augusto Meira Cassaro Fabio, Armindo Robson, Lopes Archilha Nathaly</i>	
13	SPATIALLY AND TIME RESOLVED CRACK EVOLUTION: IN-SITU OBSERVATION OF SAGBO <i>Damas Resende Pedro, Gierczak Alexis, Liu Zheheng, Rethore Julien, Bardel Didier, Ludwig Wolfgang</i>	
14	A NOVEL NON-DESTRUCTIVE PROBE FOR RAPID GRAIN BOUNDARY CHARACTERISATION ON THE MESOSCOPIC SCALE: LAB-BASED DIFFRACTION CONTRAST TOMOGRAPHY <i>Gueninchault Nicolas, Bale Hrishikesh, Sun Jun, Oddershede Jette, Bachmann Florian, Lauridsen Erik</i>	
15	INVESTIGATION OF MICROWAVE-DRIVEN NON-OXIDATIVE DEHYDROAROMATIZATION CATALYST BY XRD-CT <i>Jensen Alexander B., Christensen Thorbjorn Erik Koppen, Oestergaard Maja, Dippel Ann-Christin, Gutowski Olof, Pedersen Christoffer Malleskov, Birkedal Henrik</i>	
16	MULTI-SCALE MULTI-DIMENSIONAL MICROSTRUCTURAL IMAGING OF PRECAMBRIAN GRANITE USING X-RAY MICRO-TOMOGRAPHY (μ CT) COMBINED WITH NANOSIMS, μ RAMAN SPECTROSCOPY AND SEM-EDS <i>Kularatne Kanchana</i>	
17	MULTIMODAL TOMOGRAPHIC EXPLORATION OF THE STOMATOPOD DACTYL CLUBS'S STRUCTURE <i>Christensen Thorborn Erik Koppen, Jensen Alexander Bernthz, Oestergaard Maja, Gutowski Olof, Dippel Ann-Christin, Birkedal Henrik</i>	

18	TIME-DEPENDENT MONITORING OF CEMENT HYDRATION BY COMBINED LABORATORY X-RAY MICROTOMOGRAPHY AND POWDER DIFFRACTION <i><u>Redondo-Soto Cinthya</u>, Cuesta Ana, Salcedo Ines R., Lean-Reina Laura, Aranda Miguel</i>	
19	IN-OPERANDO NEUTRON AND X-RAY TOMOGRAPHY REVEALS COUPLING BETWEEN WATER IMBIBITION AND SWELLING IN CLAYROCK <i>Stavropoulou Eleni, Edward Ando, Roubin Emmanuel, Lenoir Nicolas, Tengattini Alessandro, Di Donna Alice, Briffaut Matthieu, <u>Bésuelle Pierre</u></i>	
20	A SAMPLE POSITION TRACKING METHOD FOR IMPROVING THE RECONSTRUCTION QUALITY IN CYCLOIDAL COMPUTED TOMOGRAPHY <i><u>Roche I Morgo Oriol</u>, Astolfo Alberto, Aleksejev Jure, Savvidis Savvas, Olivo Alessandro, Hagen Charlotte</i>	
21	ADVANCED ACQUISITION WITH LAB-BASED X-RAY DIFFRACTION CONTRAST TOMOGRAPHY <i>Bachmann Florian, Oddershede Jette, <u>Sun Jun</u>, Gueninchault Nicolas, Bale Hrishikesh, Lauridsen Erik</i>	
22	SAMPLE ALIGNMENT STRATEGY FOR THE MOGNO BEAMLINE NANO STATION AT SIRIUS, THE BRAZILIAN SYNCHROTRON LIGHT LABORATORY <i><u>Schubert Ruiz Costa Gabriel</u>, Lopes Archilha Nathaly, Moreno Gabriel Barros Zaroni Lopes, Campoi Lucca Bavia Cuenca</i>	
23	A STITCHING TECHNIQUE DEVELOPED TO RECONSTRUCT HIGH-RESOLUTION X-RAY TOMOGRAPHY FOR LARGER VOLUMES <i><u>Fransson Matilda</u>, Broche Ludovic</i>	
24	SPARSE VIEW RECTANGULAR X-RAY CT FOR CARGO INSPECTION USING THE ASTRA TOOLBOX <i><u>Bossuyt Caroline</u>, De Beenhouwer Jan, Sijbers Jan</i>	
25	BEAMLINE ID19: A VERSATILE STATION FOR SYNCHROTRON-BASED FULL-FIELD HARD X-RAY MICROIMAGING <i><u>Rack Alexander</u></i>	

Theme 2: Analysis

- 26 IMPROVED WAVEFRONT RECONSTRUCTION FOR MASK BASED PHASE-CONTRAST TOMOGRAPHY

Barjou Emile, Bakkali Aboubakr, Barbrel Benjamin, Mastropietro Francesca, Piponnier Martin, Recur Benoit, Desbarats Pascal



- 27 NXTOMOMILL: MORE THAN JUST A DATA CONVERSION TOOL

Payno Henri, Paleo Pierre, Nemoz Christian, Cloetens Peter, Di Michiel Marco, Rack Alexander, Tafforeau Paul, Sole Vicente Armando, Vigano Nicola



- 28 TOMOGRAPHY FOR HIGH TEMPORAL - LOW ANGULAR SAMPLING

Henningsson Axel, Hall Stephen



- 29 A STRAIGHTFORWARD COMPUTATIONAL CORRECTION FOR LIMITED ANGLE TOMOGRAPHY DATA

Piault Pierre, King Andrew, Henry Laura, Jitendra Rathore, Mishurova Tatiana



- 30 HIGH PERFORMANCE SAVU SOFTWARE FOR FAST 3D MODEL-BASED ITERATIVE RECONSTRUCTION OF LARGE DATA AT DIAMOND LIGHT SOURCE

Kazantsev Daniil, Wadeson Nicola, Basham Mark



- 31 MULTI-MODAL INSPECTION OF COMPLEX AERONAUTIC PARTS USE CASES, OPEN CHALLENGES AND FUTURE WORK

Weinberger Patrick, Plank Bernhard, Hoeglinger Markus, Froehler Bernhard, Kastner Johann, Heinzl Christoph



- 32 PYPOR3D: AN OPEN SOURCE SOFTWARE LIBRARY FOR QUANTITATIVE ANALYSIS OF POROUS MEDIA

Aboulhassan Amal, Brun Francesco, Kourousias George, Lanza fame Gabriele, Voltolini Marco, Contillo Adriano, Mancini Lucia



- 33 THE CREATION OF A THREE-DIMENSIONAL X-RAY PHASE CONTRAST XENOPUS LAEVIS ATLAS AND ITS HIGHLIGHTS

Odar Janes, Spiecker Rebecca, Zharov Yaroslav, Wielath Fee, Zuber Marcus Van De Kamp Thomas, Ershov Alexey, Farago Tomas, Hamann Elias, Vick Philipp, Feistel Kerstin, Baumbach Tilo



- 34 A FAST AND ADAPTIVE SOLUTION FOR OBJECT SEPARATION

Bernard Laurent, Joseph Baptista, Warren Aim, Rémi Abbal



35	ADAPTIVE TRIANGULAR MESH FOR PHASE CONTRAST IMAGING <u>Merckx Jannes</u>	
36	ON THE RELEVANCE OF SEGMENTATION IN THE CASE OF POOR CONTRAST <u>Senechal Pascale</u> , Obou Ahibé Yann Emmanuel Nolwen, Moonen Peter	
37	SEGMENTATION AND STRUCTURAL MORPHOLOGY QUANTIFICATION OF RENAL VASCULATURE IN A HEALTHY HUMAN KIDNEY BASED ON SYNCHROTRON X-RAY TOMOGRAPHIC IMAGES <u>Rahmani Shahrokh</u> , Walsh Claire, Tafforeau Paul, Shipley Rebecca, Lee Peter	
38	SEMI-SUPERVISED AND DEEP LEARNING SEGMENTATION OF X-RAY COMPUTED TOMOGRAPHY OF WOVEN COMPOSITES <u>Foster Collin</u> , Panerai Francesco, Collins Lincoln, Roberts Scott	
39	DETECTION LIMIT OF SMALL MICROSTRUCTURAL FEATURES IN METALLIC SAMPLES CHARACTERIZED BY SYNCHROTRON TOMOGRAPHY <u>Bravais Guillaume</u> , Terzi Sofiane, Fayard Barbara	
40	EVALUATION OF THE MORPHOLOGY AND MECHANICAL PROPERTIES OF HYBRID SCAFFOLDS WITH DIFFERENT CALCIUM CONTENTS <u>Liu Jingwen</u> , Rahmani Shahrokh, Tallia Francesca, Heyraud Agathe, Jones Julian, Lee Peter	
41	FOAMQUANT: A 4D QUANTIFICATION TOOLBOX <u>Schott Florian</u> , Raufaste Christophe, Dollet Benjamin, Santucci Stephane Claudet Cyrille, Mokso Rajmund	
42	MICROSCOPIC DEFORMATIONS IN MDF SWELLING: A UNIQUE 4D-CT CHARACTERIZATION <u>Pierre Kibleur</u> , Manigrasso Zaira, Goethals Wannes, Aeltermann Jan, Boone Matthieu, Van Acker Joris, Van Den Bulcke Jan	
43	MULTI-FRAME DIGITAL VOLUME CORRELATION <u>Manigrasso Zaira</u> , Goethals Wannes, Moazami Goudarzi Niloofar, Boone Matthieu, Philips Wilfried, Aeltermann Jan	

44	AUTOMATED POROSITY DETECTION IN LASER POWDER BED FUSION PARTS USING COMPUTED TOMOGRAPHY AND DEEP LEARNING <i><u>Desrosiers Catherine</u>, Letenneur Morgan, Bernier Fabrice, Provencher Benjamin, Cheriet Farida, Piche Nicolas, Du Plessis Anton, Brailovski Vladimir, Guibault François</i>	
45	BINDER IDENTIFICATION IN GRANULAR AND FI-BROUS ENERGY MATERIAL SCANS <i><u>Reeb Sarah</u>, Glatt Ilona, Biebl Fabian</i>	
46	DEEP LEARNING BASED RING ARTIFACT CORRECTION TRAINED ON A DATABASE GENERATED BY AN X-RAY SIMULATION SOFTWARE <i><u>Autret Awen</u>, Nguyen Duy, Fayard Barbara</i>	
47	GENERALISABLE MACHINE LEARNING NETWORKS FOR TOMOGRAPHY <i><u>Walsh Claire</u>, Tafforeau Paul, Jacob Joseph Coleman Hannah, Holroyd Natalie, Walker-Samuel Simon, Lee Peter</i>	
48	EDGE ILLUMINATION PHASE CONTRAST SIMULATIONS USING THE OPTIX GPU RAY TRACING ENGINE <i><u>Francken Nicholas</u>, Paramonov Pavel, Sijbers Jan, De Beenhouwer Jan</i>	
49	X-RAY SCATTERING TENSOR TOMOGRAPHY BASED FINITE ELEMENT MODELLING OF RECYCLED CARBON FIBRE REINFORCED POLYPROPYLENE <i><u>Auenhammer Robert</u>, Kim Jisoo, Oddy Carolyn, Mikkelsen Lars, Marone Federica, Stampanoni Marco, Asp Leif</i>	
50	DETAILED CHARACTERIZATION OF A CFRP LIGHTNING IMPACTED SPECIMEN BY COMPLEMENTARY PHASE IMAGING TECHNIQUES ON SYNCHROTRON AND IN THE LABORATORY <i><u>Stolidi Adrien</u>, Laureen Guitard, Amelie Jarnac, Georges Giakoumakis, Jerome Primot</i>	

Theme 3: Applications

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52	3D NON-DESTRUCTIVE CHARACTERIZATION OF ELECTRICAL STEELS FOR QUANTITATIVE TEXTURE ANALYSIS WITH LAB-BASED X-RAY DIFFRACTION CONTRAST TOMOGRAPHY <i><u>Sun Jun</u>, Petryshynets Ivan, Meng Li, Zhang Ning, Li Yang, Bachmann Florian, Lauridsen Erik</i>	
53	THERMAL-INDUCED CHANGES OF ORGANIC TEMPER IN ARCHAEOLOGICAL CERAMICS VISUALISATION WITH HELICAL TRAJECTORY AND HIGH-QUALITY X-RAY CT <i><u>Jaques Victory</u>, Blazek Pavel, Petrik Jan, Slavek Karel, Zikmund Tomas, Kaiser Jozef</i>	
54	ADVANCED X-RAY COMPUTED TOMOGRAPHY IN ADDITIVE MANUFACTURING <i><u>Zacher Gerhard</u></i>	
55	FAILURE MECHANISMS INVESTIGATION BY MEANS OF IN-SITU SYNCHROTRON CT IN ALUMINUM MMC-BASED ALLOY TAILORED FOR ADDITIVE MANUFACTURING <i><u>Mishurova Tatiana</u>, Evsevleev Sergei, Bharat Mehta, Nyborg Lars, Virtanen Eero, Markoetter Henning, Hryha Eduard, Bruno Giovanni</i>	
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57	LABORATORY X-RAY MICRO-TOMOGRAPHY, AN ESSENTIAL TECHNOLOGY FOR THE DEVELOPMENT OF METALLIC ADDITIVE MANUFACTURING PROCESSES. APPLICATIONS AT MATEIS LABORATORY. <i><u>Papillon Justine</u>, Coffigniez Marion, Persenot Theo, Adrien Jerome, Lachambre Joel, Maire Eric</i>	
58	PROCEDURES TO QUANTITATIVELY CHARACTERIZE MORPHOLOGICAL FEATURES OF TRIPLY PERIODIC MINIMAL SURFACE STRUCTURES <i>Bruno Giovanni, Evsevleev Sergei, <u>Mishurova Tatiana</u>, Khrapov Dmitriy, Surmeneva Maria, Surmenev Roman, Paveleva Alexandra, Koptiug Andrey</i>	

59	X-RAY TOMOGRAPHY INVESTIGATIONS OF ARTIFICIAL STONE PRODUCED BY ADDITIVE MANUFACTURING <i><u>Adrien Jerome</u>, Gobbin Filippo, Elsayed Hamada, Italiano Antonino, Colombo Paolo, Maire Eric</i>	
60	4D IMAGING OF CURING SOIL WITH CONSTANT LOAD <i><u>Kuva Jukka</u>, Lopez Ramirez Alejandra, Miksic Amandine, Korkiala-Tantt Leena</i>	
61	COMBINING ACOUSTIC MEASUREMENTS AND X-RAY TOMODENSITOMETRY FOR THE DETECTION OF LEAKS IN DYKES <i><u>Pham Van Bang Damien</u></i>	
62	3D NON-DESTRUCTIVE CRYSTALLOGRAPHIC IMAGING OF PERIDOTITE WITH LAB-BASED X-RAY DIFFRACTION CONTRAST TOMOGRAPHY <i><u>Sun Jun</u>, Bachmann Florian, Oddershede Jette, Lauridsen Erik</i>	
63	EVALUATION OF TRIAXIAL COMPRESSION BEHAVIOR OF ARTIFICIAL PARTICLES USING X-RAY TOMOGRAPHY <i><u>Takano Daiki</u>, Sato Takahiro, Otani Jun</i>	
64	IN-SITU INVESTIGATION OF COMPACTION-INDUCED FLUID FLOW IN TUFFEAU DI MAASTRICHT USING FAST NEUTRON TOMOGRAPHY <i><u>Lukic Bratislav</u>, Couture Cyrille, Tengattini Alessandro, Viggiani Gioacchino, Cordonnier Benoit</i>	
65	3D ANALYSIS OF BONE MINERALIZATION ON A TIBIA DIAPHYSIS DEFECT IMPLANTED WITH CALCIUM PHOSPHATE MICROSPHERES <i>Wendt Camilla, Zelaya Victor, Linhares Andre, <u>Santos Caio</u>, Lopes ricardo, Farina Marcos, Rossi Alexandre Malta</i>	
66	EFFICIENT CRYSTAL CHARACTERIZATION FOR DETRITAL GEOCHRONOLOGY <i><u>Ketcham Richard</u>, Ibanez-Mejia Mauricio, Pullen Alex</i>	
67	EXPLORING MICROSTRUCTURE AND PHYSICAL PROPERTIES OF TUFF ROCKS: A 3D MULTISCALE CHARACTERIZATION <i><u>Buono Gianmarco</u>, Caliro Stefano, Macedonio Giovanni, Pappalardo Lucia, Federico Gamba</i>	

68	IMPREGNATION METHOD OF UNCONSOLIDATED SEDIMENTS FOR MICRO-CT AND THIN SECTION ANALYSIS <i><u>Lisson Kamill</u>, Van Daele Maarten, Cnudde Veerle</i>	
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70	MULTISCALE 3-DIMENSIONAL IMAGING AND MODELLING APPROACHES IN ENERGY MATERIALS RESEARCH <i><u>White Robin</u>, Kelly Stephen, Gueninchault Nicolas, Volkenandt Tobias, Tordoff Benjamin, Griesser Andreas</i>	
71	3D MICROSTRUCTURE OF STARCH-BASED FRIED PRODUCTS <i><u>Ujjwal Verma</u>, Riley Isabella M., Delcour Jan A., Verboven Pieter Nicolai Bart</i>	
72	BIMODAL X-RAY AND NEUTRON μCT PROVIDES NEW INSIGHTS ON THE CORROSION OF MG-BASED BIODEGRADABLE IMPLANTS IN BONE <i><u>Peruzzi Niccolo</u>, Galli Silvia, Helmholtz Heike, Tengattini Alessandro, Wieland Florian, Willumeit Regine, Woracek Robin, Wennerberg Ann, Bech Martin</i>	
73	BONE MICROCRACK PROPAGATION EVALUATED USING HIGH-RESOLUTION DIFFERENTIAL XCT <i><u>Koudelka Petr</u>, Sleichert Jan, Jirousek Ondrej, Fila Tomas, Zlamal Petr, Bendova Vendula, Vopalensky Michal, Kytir Daniel</i>	
74	IMAGING AND QUANTIFICATION OF THE VERTEBRAL DISC-ENDPLATE SYSTEM <i><u>Parmenter Alissa</u>, Disney Catherine, Bosi Federico, Lee Peter</i>	
75	4D CT STUDY OF THE SUSPENSION TRANSPORTATION INSIDE OF THE STONE <i>Vavrik Daniel, Benes Pavel, <u>Koudelka Petr</u>, Rada Vaclav, Slizkova Zuzana</i>	
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77	CHARACTERISATION OF AEROGEL SCAFFOLDS THROUGH LABORATORY PHASE-CONTRAST MICRO-TOMOGRAPHY <i>Dreier Till, Oikonomou Vasileios, Christensen Jakob L., Dahl Vedrana A., Dahl Anders B, Stavrinidou Eleni, Bech Martin</i>	
78	FROM IMAGES OF POROUS MEDIA GENERATED BY MEDICAL CT-SCANNER TO CFD NUMERICAL SIMULATIONS <i>Pham Van Bang Damien, Hammouti Abdelkader</i>	
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80	TOWARD A NEW IMPREGNATION-REFREEZE PROTOCOL FOR TOMOGRAPHY OF SNOW SAMPLES <i>Haffar Iheb, Flin Frederic, Latil Pierre</i>	
81	VISUALIZATION AND CHARACTERIZATION OF THE DYNAMIC STRUCTURE OF SOLID DOSAGE FORMS DURING THE DISSOLUTION PROCESS USING HIGH-RESOLUTION X-RAY TOMOGRAPHY <i>Moazami Goudarzi Niloofar, Samaro Aseel, Manigrasso Zaira, Vervaet Chris, Aelterman Jan, Boone Matthieu</i>	
82	TOMO-RHEOSCOPY OF A 3D LIQUID FOAM <i>Schott Florian, Gstoebl Stefan, Raufaste Christophe, Dollet Benjamin, Santucci Stephane, Claudet Cyrille, Schlepuetz Christian Matthias, Mokso Rajmund</i>	
83	3D FRUIT MICROSTRUCTURE ANALYSIS USING CONTRAST-ENHANCED IMAGING AND DEEP LEARNING <i>Van Doorselaer Leen, Verboven Pieter, Nicolai Bart</i>	
84	SEGMENTATION OF LACK-OF-FUSION-DEFECTS IN ADDITIVE MANUFACTURED COMPONENTS USING INDUSTRIAL CT <i>Bliedtner Katharina, Meynard Philippe, Herold Frank</i>	
85	Joint Multiply Regularised Reconstruction for Non-Mutually Missing Datasets <i>Leatherland Alex, Blumensath Thomas, Boardmann Richard, Bazin Nick Aldrich-Smith Giles</i>	

86	FROM PROJECTIONS TO SMALL-ANGLE SCATTERING: ARTIFACTS INDUCED BY NOISE AND CONE-BEAM GEOMETRY <i>Brisard Sebastien, <u>Chateau Camille</u>, Levitz Pierre</i>	
87	DYNAMIC X-RAY CT EXPERIMENTS WITHOUT RELAXATION EFFECTS: COMPRESSION OF ADDITIVE MANUFACTURED SAMPLES <i><u>Dewanckele Jan</u>, Coppens Frederik, De Boever Wesley, Boone Marijn</i>	
88	USE OF DYNAMIC X-RAY MICRO-CT FOR COMPLEX CLAY-SALT-WATER SYSTEMS <i><u>Dewanckele Jan</u>, De Boever Wesley, Griesser Andreas, Wang Yanhong, Meng Fangli</i>	
89	EVERYTHING LOOKS BETTER IN COLOR: SPECTRAL COMPUTED TOMOGRAPHY <i>De Boever Wesley, <u>Van Loo Denis</u>, Boone Marijn</i>	
90	APPLICATION OF U-NET TO SEGMENT PORES AND FIBERS IN COMPOSITES <i>Yosifov Miroslav, <u>Weinberger Patrick</u>, Plank Bernhard, Hoeglenger Markus, Frohler Bernhard</i>	
91	TOWARDS THE IMPLEMENTATION OF A DUAL-PHASE INTERFEROMETER FOR THE CHARACTERIZATION OF BUILDING MATERIALS <i><u>Organista Caori</u>, Kagias Matias, Tang Ruizhi, Stambanoni Marco, Boone Matthieu N.</i>	
92	OPERANDO 4D X-RAY μ CT REVEALS THAT A REACTING, DIFFERENTIALLY STRESSED ROCK DEVELOPS AN ANISOTROPIC MICROSTRUCTURE WITHOUT STRAIN <i><u>Fusseis Florian</u>, Ian B. Butler., Roberto Rizzo, Damien Freitas, James Gilgannon, Christian Schlepütz, Federica Marone</i>	



Seeing beyond

