

INFORMATION

Access to the content	<p>Narrated PowerPoints will be available via the SHM-NDT website, a login will be needed to access the program content (will be provided later with your registration).</p> <p>All registered participants will be automatically registered to the live ZOOM sessions (for the keynotes). Please note, the login for ZOOM will be different on the Wednesday and on the Thursday.</p>
Virtual exhibition	Wednesday afternoon there will be a live presentation from the exhibitor at 14h, via ZOOM
Candidates* Award Paper	<p>The shade -shown on left - indicates the shaded papers are candidate for the «3rd Under 35 Paper Award» and IXth IWASPNDT, Quebec Best Workshop Award Candidates. Selection will be announced after the Symposium.</p> <p>Please send your vote at : shmndt2020@easychair.org</p> <p>* as of today's version of the program</p>
«3rd Under 35 Paper Award»	

PLEASE UPLOAD your video presentation, 100 Meg max on EasyChair by Nov. 15th

Please inform us of any discrepancies found in the program

time	Paper #	Authors	Title
Wednesday 25 Nov. 2020 - LIVE KEYNOTES & Virtual exhibition			
08:50		Xavier Maldague	Welcome address
09:00	6	Gunther Steenackers, Simon Verspeek and Bart Ribbens	Optimized non-destructive inspection using multi-modal measurement set-up and numerical modeling (keynote lecture)
10:00	24	Ahmad Osman	Next Generation NDT An Enabling Technology for the Factory of the Future
14:00		Virtual Exhibition	on ZOOM
Thursday 26 Nov. LIVE KEYNOTES & Closing			
11:30	32	Vadim Parfenov	MONITORING CULTURAL HERITAGE OBJECTS USING LASER AND OPTICAL 3D SCANNING
14:00	26	Patrice Masson and Nicolas Quaegebeur	CORRELATION-BASED ULTRASOUND IMAGING IN NDT AND SHM
15:00		Ahmad Osman, Xavier Maldague	Annoncement of the next SHM-NDT Symposium and Closing.
NARRATED POWERPOINTS (full papers) available online 25 & 26 Nov. 2020, with login provided, via the Symposium website			
	1	Qiang Fang, Xavier Maldague and Farima Mamoudan	15-20 min presentation Defect depth estimation in infrared thermography with deep learning
	2	Marie-Pierre Despau, François Lachance and Philippe Rioux	High Precision Corrosion Monitoring Using Ultrasonic Techniques
	5	Seyed Fouad Karimian, Ramin Moradi, Sergio Cofre-Martel, Katrina M. Groth and Mohammad Modarres	NEURAL NETWORK AND PARTICLE FILTERING: A HYBRID FRAMEWORK FOR CRACK PROPAGATION PREDICTION
	7	Stephane Boubanga Tombet, Éric Guyot and Jean-Philippe Gagnon	ANALYSIS OF BALLISTIC IMPACTS ON COMPOSITE MATERIALS BY INFRARED ACTIVE THERMOGRAPHY
	8	Simon Verspeek, Bart Ribbens, Michaël Hillen, Xavier Maldague and Gunther Steenackers	Wooden flooring inspection using active thermography
	9	Bardia Yousefi, Clemente Ibarra Castanedo and Xavier P.V. Maldague	INFRARED-BASED NON-INVASIVE COMPUTER-AIDED DIAGNOSIS FOR EARLY DETECTION OF BREAST CANCER USING DYNAMIC THERMOGRAPHY
	10	Xiang Zhang and Jian-Ping Peng	COMPARISON STUDY OF DIFFERENT ALGORITHM FOR MICROCRACK DETECTION USING EDDY CURRENT PULSED THERMOGRAPHY

time	Paper #	Authors	Title
	11	Nidhal Bouslama, Nicolas Quaegebeur, Ahmed Maslouhi and Patrice Masson	COMPARISON OF NON-DESTRUCTIVE TECHNIQUES IN PLAIN WEAVE CARBON FIBER REINFORCED POLYMERS UNDER FATIGUE LOADING
	13	Julien Fleuret and Xavier Maldague	Independent Component Thermography Applied to Pulsed Thermographic Data
	14	Davood Kalhor, Samira Ebrahimi, Roger Booto Tokime, Farima Abdollahi Mamoudan, Yohan Bélanger, Alexandra Mercier and Xavier Maldague	INFRARED THERMOGRAPHY FOR CULVERT INSPECTION
	16	Kazushi Kimoto and Hiroto Shimada	ULTRASONIC IMAGING METHOD FOR THE DETECTION AND SIZING OF CRACKS IN A RIB-TO-DECK WELDED JOINT
	18	Fabian Krieg, Jan Kirchhof, Eduardo Pérez, Thomas Schwender, Florian Roemer and Ahmad Osman	LOCALLY OPTIMAL SUBSAMPLING STRATEGIES FOR FULL-MATRIX CAPTURE MEASUREMENTS IN PIPE INSPECTION
	19	Shakeb Deane, Nicolas Avdelidis, Hamed Yazdani Nezhad, Antonios Tsourdos, Xavier Maldague and Clemente Ibarra Castanedo	UAV NDT of aircraft structures
	20	Hossein Memarzadeh Sharifipour, Bardia Yousefi and Xavier P.V. Maldague	MATHEMATICAL MORPHOLOGY FROM CATEGORICAL VIEWPOINT
	21	Henrique Fernandes, Jannik Summa, Julie Daudre, Ute Rabe, Stefano Sfarra, Gianfranco Gargiulo and Hans-Georg Herrmann	NON-DESTRUCTIVE INSPECTION OF DECORATIVE MARQUETRY SAMPLE
	22	Faraz Masoumi, Afshin Sadri, Wai Lai Ying and Claudio Pasqualino	CONDITION ASSESSMENT OF PRESTRESSED CONCRETE GIRDERS OF A HIGHWAY BRIDGE IN CANADA
	23	Zhigang Sun, Kuo-Ting Wu, Daniel Levesque, Silvio Krüger, Daniel Gagnon, Yves Quenneville, Roger Lacroix and Renée Royer	ULTRASONIC MONITORING OF ROCK BOLTS
	25	Christophe Bescond, Daniel Levesque, Cristian Cojocaru and Priti Wanjara	LASER-ULTRASONIC METAL ADDITIVE MANUFACTURING INSPECTION AT NRC CANADA
	29	Valentin Serey, Huu Tinh Hoang, Tom Druet and Bastien Chapuis	Passive guided waves tomography for structural health monitoring of pipes
	31	Fatima Zahra Oujebbour, Valérie Kaftandjian, Joël Lachambre and Benyebka Bou-Saïd	Image Fusion based Evidence Theory for Multi-energy X-Ray Computed Tomography
	33	Dominique Albert-Weiss, Eglá Hadgini, Ziang Wei, Matthias Heinrich, Ahmad Osman and Giovanni Del Galdo	Acoustic Ripeness Classification for Watermelon Fruits using Convolutional Neural Networks
	34-43	Esmail Ghorbani, Dagmar Svecova, Evangeline Murison and Young-Jin Cha	OUTPUT-ONLY BRIDGE SCOUR MONITORING USING MEASURED VIBRATION

time	Paper #	Authors	Title
	38	Abdel Rahman Dakak, Valérie Kaftandjian, Philippe Duvauchelle and Patrick Bouvet	Transfer learning for recognizing casting defects inspected by tomography
	41	Rahimullah Habibzai	Non destructive evaluation of repaired reinforced concrete beam by unprecedented polymer cement mortar mixed with steel fiber
	42	Fahim Mumand and Yusuke Nagai	SIBIE (Stack Imaging of spectral amplitude Based on Impact Echo) Application for Diagnosing Voids in Composite Materials
	44	Sandra Pozzer, Francisco Dalla Rosa, Zacarias Martin Chamberlain Pravia, Ehsan Rezazadeh Azar and Xavier Maldague	Long-term numerical analysis of subsurface delamination detection in concrete slabs via infrared thermography
		SHORT NARRATED POWERPOINTS ("posters")	5-10 min presentation
	17	Mohammad Ebrahim Bajgholi, Gilles Rousseau and Martin Viens	Performance of Ultrasonic Inspection on hydroelectric turbine runner
	30	Farima Abdollahi Mamoudan, Sebastien Savard, Xavier Maldague, Abdel Hakim Bendada and Tobin Filleter	NON-DESTRUCTIVE TESTING OF MATERIALS BY CAPACITIVE SENSING
	35	Maryam Shafiei Alavijeh, Ryan Scott, Fedar Seviaryn and Roman Maev	INSPECTION OF BUTT FUSION JOINTS OF MEDIUM DENSITY POLYETHYLENE PIPES USING PULSE-ECHO ULTRASOUND
	36	Konstantin Polyakov, Fernando Lopez and Martin Viens	Advanced signal processing techniques to improve the detection of defects in pressure vessels by acoustic emission testing
	37	Parham Nooralishahi, Fernando Lopez and Xavier Maldague	A NOVEL DRONE-ENABLED APPROACH FOR GAS LEAK DETECTION USING THERMAL IMAGE FLOW ANALYSIS