



CM2009 / MFPT2009 CONFERENCE PROGRAMME

Monday 22nd June

16:00 – 19:00 Registration

19:00 – 20:30 Welcome buffet (by pre-booking only)

Tuesday 23rd June

08:00	Registration
08:30	Opening ceremony
08:50	PLENARY KEYNOTE: Diagnostic similarity of machines and their elements <i>Prof C Cempel, Poland</i>
09:20	PLENARY INVITED DISTINGUISHED: Audible sound for condition monitoring in mechanical engineering <i>Prof M Cudina, Slovenia</i>

09:50 **Tea, coffee & exhibition**

	1A	1B	1C	1D
	Machine diagnostics and monitoring under condition of varying load <i>CHAIR: Prof. W Bartelmus, Wroclaw University of Technology</i>	System identification, control and time-frequency methods in structural mechanics (part 1) <i>CHAIR: Prof B Basu, Trinity College Dublin</i>	Advanced signal processing for condition monitoring (part 1) <i>CHAIR: Dr N Martin, GIPSA Lab</i>	Condition monitoring of machines and processes (part 1) <i>CHAIRS: Prof C Cempel¹, Prof S Radkowski², Poznan University of Technology¹, Warsaw University of Technology²</i>
10:10	Gearbox condition degradation models <i>W Bartelmus, R Zimroz, Wroclaw University of Technology</i>	Wavelet controllers for structural dynamic systems <i>B Basu, Trinity College Dublin</i>	A non-stationary index resulting from time and frequency domains <i>N Martin, GIPSA Lab</i>	Failure oriented diagnostic models in diagnostics <i>S Radkowski, M Zawisza, Warsaw University of Technology</i>
10:35	Some remarks on local damage diagnosis in presence of multi-faults and non-stationary operation <i>R Zimroz, Wroclaw University of Technology</i>	System identification and monitoring of sustainable bridge structures <i>A Connor, Trinity College Dublin</i>	Condition monitoring based on filter bank in the presence of data loss <i>S Lesecq, S Gentil, C Berbra, GIPSA Lab</i>	Doppler effect minimisation in the spectra emitted by moving vehicles by the application of a harmonic signal detection (hard) method <i>C Yiakopoulos¹, K Gryllias¹, I Antoniadis¹, S Radkowski², S Gontarz², National Technical University of Athens¹, Warsaw University of Technology²</i>

10:55	Modelling and identification of load variation in a spur gear system <i>F Chaari, National School of Engineers of Sfax</i>	Semi-active vibration control of wind turbines blades including blade tower interaction <i>J Arrigan, B Basu, Trinity College Dublin</i>	Wigner-ville distribution of amplitude and phase high frequency modulations in induction motor stator current <i>B Trajin, M Chabert, J Regnier, J Faucher, ENSEEIHT</i>	Modelling of propeller shaft dynamics <i>A Grzadzka, Naval University of Gdynia</i>
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11:15 Break & exhibition

	2A	2B	2C	2D
	Monitoring and modelling in biomedical and biological engineering (part 1) <i>CHAIR: Prof R Allen, University of Southampton</i>	System identification, control and time-frequency methods in structural mechanics (part 2) <i>CHAIR: Prof B Basu, Trinity College Dublin</i>	Advanced signal processing for condition monitoring (part 2) <i>CHAIR: Dr N Martin, GIPSA Lab</i>	Condition monitoring of machines and processes (part 2) <i>CHAIRS: Prof C Cempel¹, Prof S Radkowski² Poznan University of Technology¹, Warsaw University of Technology²</i>
11:35	Monitoring for clinical diagnosis and assessment <i>R Allen, University of Southampton</i>	Theoretical investigation of the use of a moving vehicle to identify bridge dynamic parameters <i>A Gonzalez, E O'Brien, University College Dublin</i>	Modified sub-band ARCAP method for the monitoring of rail corrugation <i>C Hory, P Akin, L Bouillaut, INRETS-LTN</i>	The changes of critical angular velocity as a diagnostic symptom of rotating composite shaft <i>A Tylikowski, Warsaw University of Technology</i>
12:00	Process failure in clinical anaesthesia <i>D Smith, Dept Anaesthetics, Southampton NHS</i>	Condition monitoring of building structures during earthquakes using a wavelet-based analysis <i>B Broderick, J Goggins, Trinity College Dublin</i>	Using marked point processes for the change-point problem <i>F Chatelain, GIPSA Lab</i>	Hidden markov models in task of condition monitoring <i>A Galezia, S Radkowski, Warsaw University of Technology</i>
12:20	Diagnostic ultrasound and bio-inspiration <i>T Anderson, M Bennet, R Steel, University of Edinburgh</i>	Spectral analysis of nonlinear offshore structures <i>M Hartnett, National University of Ireland</i>	Using independent component analysis for the diagnosis of a large scale railway system <i>Z Cherfi¹, L Oukhellou^{1,2}, P Akin¹, INRETS LTN¹, Université Paris²</i>	Use of Bayesian updating in procedures of proactive maintenance <i>S Radkowski, Warsaw University of Technology</i>
12:40	Physiological data monitoring of the injured brain <i>I Chambers, The James Cook University Hospital</i>	Supporting of the AS-interface networks diagnostic process with artificial intelligence application <i>M Piotr, Silesian University of Technology</i>	A probabilistic approach for the classification of railway switch operating states <i>F Chamroukhi, A Samé, P Akin, INRETS LTN</i>	Demodulation of defective rolling element bearings vibration response with complex shifted morlet wavelets (CSMW) using a peak energy criterion (PEC) <i>K Gryllias, I Antoniadis, National Technical University of Athens</i>
13:00	A system of measurement to monitor the depth of anaesthesia from the auditory evoked (middle latency) potential featuring wifi connectivity to a real-time remote MatLab automation server <i>A Fischer, Royal Liverpool University Hospital</i>		A novel roller bearing diagnostic method based on cyclostationary analysis of vibration signals <i>I Mazzitelli, P Forte, University of Pisa</i>	Advances in nanolubricants and nanotribology <i>M Jean-Michel, Ecole Centrale De Lyon</i>

13:20 Lunch & exhibition

14:20	PLENARY KEYNOTE: Monitoring the structure and functionality of inorganic nanotubes and fullerene-like nanoparticles <i>R Tenne, Israel</i>
14:50	Exhibitor spotlight session

15:10 Tea, coffee & exhibition

	3A	3B	3C	3D
	Trained structures and statistical methods in condition monitoring <i>CHAIR: Prof L Kuravsky, Russian Aviation Co.</i>	Advanced signal processing for condition monitoring (part 3) <i>CHAIR: Prof J Vizintin</i>	E-Maintenance <i>CHAIRS: Mr O Candell¹, Dr R Karim², Saab Aerotech¹, Lulea University²</i>	Robust condition based maintenance methodology <i>CHAIR: Dr T Lago, Acticut International AB</i>
15:30	Wavelet-based confirmatory factor analysis for monitoring of system factors: estimating goodness-of-fit measures with the aid of self-organising feature maps <i>L Kuravsky, S Baranov, N Baranov, Russian Aviation Co.</i>	Sociotechnical and informational aspects of an innovation in the automatic verification of print <i>S Hickey, L Noriega, University of Stafford</i>	Service-oriented condition monitoring and information logistics <i>R Karim, P Soderholm, Lulea University of Technology</i>	Robust and rapid production line testing <i>T Lago, Acticut International AB</i>
15:50	Vibration diagnostics of turbomachine rotor bearing damages based on signal simulation <i>V Karasev, G Nazarenko, Central Institute of Aviation Motors</i>	A simple signal processing method for localised bearing defect detection using acoustic emission signals <i>Y Feng¹, F Schindwein², University of Leicester¹, University of Durham²</i>	Condition monitoring and maintenance support information services <i>P Soderholm¹, R Karim¹, O Candell², U Kumar¹, Lulea University of Technology¹, Saab Aerotech²</i>	Automated condition monitoring – a natural extension to active noise and vibration control <i>D Maguire, TechnoFirst America</i>

16:10	On the approach to technical diagnostics based on the multivariate relaxation neurone analysis of system status <i>S Baranov, L Kuravsky, Russian Aviation Co.</i>	Crack monitoring of rotating constructive elements <i>V Volkovas, Kaunas University of Technology</i>	On-line solid debris analysis of oil using vision technology on open computing platform <i>H Pikkarainen¹, P Vahaoja², Kemi-Tornio University of Applied Sciences¹, University of Oulu²</i>	Noise source identification and active control in a water turbine application <i>H Akesson^{1,3}, A Sigfridsson¹, T Lago¹, I Andersson², L Hakansson³, Acticut International AB¹, Turab AB², Blekinge Institute of Technology³</i>
16:30	The neuronet technology for recognition of text data by visually impaired persons involved in condition monitoring operations <i>L Kuravsky, G Yuriev, Moscow State University of Psychology and Education</i>	Case study of grinding burn detection of case-hardened gear wheel with barkhausen noise measurements <i>S Santa-Aho¹, M Vippola¹, T Lepisto¹, M Lindgren², Tampere University of Technology¹, Outotec Research Oy.²</i>	Trends in industrial oil analysis – a review <i>P Vahaoja, H Pikkarainen, Kemi-Tornio University of Applied Sciences¹, University of Oulu²</i>	Evaluation of genetic algorithm based methods used for separation of tapered rolling bearing vibration <i>A Docekal, Czech Technical University</i>
16:50	The applications of wavelet methods on acoustic emission signals for bearing condition monitoring <i>Y Feng¹, F Schlindwein², University of Leicester¹, University of Durham²</i>	Centroid neural network based clustering technique using competitive learning <i>K Selvakumar, S Prabu, L Ramanathan, VIT University</i>	Acoustic energy driven machinery failure process planning <i>V Lough, Ivensys Process Systems</i>	Shaft coupling model-based prognostics enhanced with vibration diagnostics <i>J Sheldon, C Byington, M Watson, Impact-Tek</i>

18:00 **Dinner**

18:45 **Guided Dublin Tour**

Wednesday 24th June

08:00	Registration
08:30	PLENARY KEYNOTE: Research delivering the future <i>M Millward, UK</i>
09:00	PLENARY INVITED DISTINGUISHED: Monitoring for clinical diagnosis and assessment <i>Prof R Allen, UK</i>

09:30 **Tea, coffee & exhibition**

	4A	4B	4C	4D
	Monitoring and modelling in biomedical and biological engineering (part 2) <i>CHAIR: Dr D Clifton, University of Oxford</i>	Vibration condition monitoring (part 1) <i>CHAIR: Dr I Antoniadis</i>	Damage diagnosis and prognosis (part 1) <i>CHAIR: Prof L Gelman, Cranfield University</i>	Experimental and virtual models for machine and plant diagnostics (part 1) <i>CHAIR: Prof Lucifredi, University of Genoa</i>
09:50	Patient-specific biomedical condition monitoring in post-operative cancer patients <i>D Clifton, L Clifton, L Tarassenko, P Watkinson, V Barber, J Salmon, University of Oxford</i>	Application of Load Sensing Technologies on Aerospace Vehicle Components <i>A Ghoshal, Heungsoo Kim, United Technologies Research Center, Catholic University of Daegu,</i>	Development of a monitoring strategy for large electrical machinery <i>S Heyns, A Grové, P Schon, A Oberholster, University of Pretoria</i>	Investigation on transfer path analysis (TPA) techniques through experimental and virtual models <i>A Lucifredi, P Silvestri, E Cavanna, University of Genoa</i>
10:15	Data fusion for identification of serious illness in children <i>S Fleming, L Tarassenko, M Thompson, D Mant, University of Oxford</i>	Taking the “expert” out of CBM by way of automated FFT vibration analysis <i>S O’Leary, S Berchiolli, SAT Technology</i>	Laboratory test rig for studying automatic intelligent diagnostic system <i>J Vizintin, University of Ljubljana</i>	Component modal synthesis modelling of a gearbox for vibration monitoring simulation <i>C Carmignani, P Forte, G Melani, University of Pisa</i>
10:35	A non-invasive method for estimating lung functions <i>L Clifton, A Farmery, C Hahn, University of Oxford</i>	Implementation of inverse vibration techniques for investigation of composite material properties <i>E Tshitsonu, Vaal University of Technology</i>	Damage prevention or damage detection – what is the objective? <i>K Innes, R Parchevsky, Shell</i>	A damage detection technique based on the processing of multiple dynamic shapes through CWTs <i>N Giannoccaro, A Messina, G Rollo, University of Salento</i>
10:55	Novel probabilistic algorithms for dynamic monitoring of electrocardiogram waveforms <i>I Strachan, Oxford Biosignals</i>	Tracking of spall size in rolling element bearings <i>N Sawalhi, R Randall, The University of New South Wales</i>	Investigation of the novel advanced higher order spectra-based technique for damage detection <i>L Gelman, I, Petrunin, J Komoda, Cranfield University</i>	A methodology to characterise the motorcycles out of plane natural modes <i>D De Falco¹, G Di Massa², S Pagano², The Second University of Naples¹, The University of Naples Federico II²</i>
11:15	Advanced signal processing for condition monitoring (part 4) <i>CHAIR: Prof S Lahdelma, University of Oulu</i>	Emphasising bearings’ tones for prognostics <i>R Klein, E Rudyk, RK Diagnostics</i>	In-Service Fatigue Crack Prediction in Blading of Turbo-Machinery, <i>L Gelman, T Noble, C Eyre, Cranfield University</i>	An application on rotating machines models of a diagnostic software of artificial immune system (AIS) type <i>A Lucifredi, P Silvestri, S Arrighi, University of Genoa</i>
	Generalised moments and lp norms in vibration analysis <i>S Lahdelma, University of Oulu</i>			

11:35 Break & exhibition

	5A	5B	5C	5D
	Advanced signal processing for condition monitoring (part 4 cont'd.) <i>CHAIR: Prof S Lahdelma, University of Oulu</i>	Aerospace NDE <i>CHAIRS: Dr Johnson, Dr Kenderian, The Aerospace Corporation</i>	Damage diagnosis and prognosis (part 2) <i>CHAIR: Prof L Gelman, Cranfield University</i>	Experimental and virtual models for machine and plant diagnostics (part 2) <i>CHAIR: Prof Lucifredi, University of Genoa</i>
11:55	Optimisation of time domain features for roller bearing fault diagnosis <i>S Goreczka, J Strackeljan, Otto von Guericke University of Magdeburg</i>	Determining the materials properties of silicon carbide using NDE methods <i>Y Kim, S Kenderian, E Johnson, The Aerospace Corporation</i>	Pursuing and implementing prognostic technologies: the role of MFPT <i>C Pomfret, MFPT</i>	A virtual model of a shaker, for tuning in vibration qualification tests <i>A Lucifredi, P Silvestri, H Brunettini, University of Genoa</i>
12:20	Method and measurement setup to detect electrical discharges in bearings of induction motors <i>J Ahola, V Sarkimaki, M Lehtisare, T Ahonen, A Pinomaa, J Tamminen, Lappeenranta University of Technology</i>	Comparing infrared thermography and ESPI for NDE of aircraft composites <i>D Findeis, J Gryzagoridis, C Lombe, University of Cape Town</i>	Cross platform calibration adaptation prognostics and communication <i>A Getman, USA</i>	Application of reliability centred maintenance in a diesel engine fuel supply system <i>G Nallakumarasamy, P Srinivasan, V Rajendran, KS Rangasamy College of Technology</i>
12:40	Improved in-line maintenance of oil in circulating lubrication system <i>J Rinkinen, Tampere University of Technology</i>	Experimental realisation of new method for vibration sources and operational defects in complex constructions locating based on time reversal and finite element model of system <i>P Artel'nyi, P Korotin, A Suvorov, A Sokov, E Sokov, Institute of Applied Physics, Russian Academy of Sciences</i>	Vibro-Meter protection and condition monitoring systems for rotating machinery, <i>V Adamenko, Vibro-Meter</i>	Development of a prognostics framework for Cutty Sark iron structures <i>Y Rosunally¹, S Stoyanov¹, C Bailey¹, P Mason², I Belf², G Monger², S Campbell³, University of Greenwich¹, The Cutty Sark Trust², University of Portsmouth³</i>

13:00 Lunch & Exhibition & Meeting of the International Advisory Committee and Local Organising Committee (by invitation)

13:50	PLENARY KEYNOTE: Convergence of NDT and condition monitoring technologies <i>P Cawley, UK</i>
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14:20 Break & exhibition

	6A	6B	6C	6D
	Advanced signal processing for condition monitoring (part 5) <i>CHAIR: Prof S Lahdelma, University of Oulu</i>	Pattern recognition and novelty detection methods for equipment health management (part 1) <i>CHAIR: Dr S King, Rolls Royce</i>	New trends in structural health monitoring in ageing plants <i>CHAIR: Prof F Kojima, Kobe University</i>	Testing and monitoring in the building and construction industries (part 1) <i>CHAIR: Dr S Roe, BINDT</i>
14:40	Experiences on the condition monitoring of military aircraft hydraulic systems <i>P Virta¹, J Aaltonen¹, K Koskinen¹, M Vilenius¹, K Vaaranieni², Tampere University of Technology¹, Finnish Airforce²</i>	Anomaly detection of combustor systems in support of unmanned air vehicle applications <i>S King¹, D Hernandez¹, J Moran¹, S Sundaram², Rolls Royce¹, Oxford Biosignals²</i>	Structural health monitoring of NPPs: role of modelling and simulation <i>F Kojima, Kobe University</i>	Testing and monitoring in the building and construction industries <i>S Roe, BINDT</i>
15:05	Development of acoustic emission technology for condition monitoring and diagnosis of journal bearing <i>A Mirhadizadeh, D Mba, Cranfield University</i>	Novelty detection in jet engine vibration spectra <i>D Clifton, L Tarassenko, Oxford University</i>	A proposal of eddy current monitoring for advanced plant maintenance <i>T Takagi, T Uchimoto, Tohoku University</i>	Testing and monitoring in the building and construction industries using infrared thermography <i>B Berry, Thermal Vision</i>
15:25	Ultrasonic NDT Characterisation of defects during ultrasonic inspection using neural networks <i>T Meksen¹, M Boudraa¹, R Dra², University of Sciences and Technology, Algeria¹, Centre of Welding and Control²</i>	Time-frequency domain detection of hydro-mechanical system faults <i>A Mills, University of Sheffield</i>	Diagnosis of degradation in structural ferromagnetic materials by magnetic measurement <i>H Kikuchi, Y Kamada, S Kobayashi, K Ara, Iwate University</i>	Energy calculations using infrared thermography <i>S Little, A Little, IRT Surveys Ltd</i>
15:45	Ultrasonic on-line monitoring of crack growth <i>D Ludlow¹, B McGrath¹, I Atkinson², C Bugg², SERCO¹, KANDE International²</i>	A hidden markov model for condition monitoring of a manufacturing drilling process <i>I Strachan, Oxford Biosignals</i>	Automatic condition monitoring system for industrial motors <i>T Usami¹, F Kojima², Mitsubishi Electric Corporation¹, Kobe University²</i>	Oil condition monitoring of gas turbine engines <i>S Greenfield, Eaton Aerospace</i>

16:05 Tea, coffee & exhibition

16:25 Exhibition close

	7A	7B	7C	7D
	Advanced reasoning and diagnosis in condition monitoring <i>CHAIR: Dr E Juuso, University of Oulu</i>	Pattern recognition and novelty detection methods for equipment health management (part 2) <i>CHAIR: Dr S King, Rolls Royce</i>	Gas turbine engine diagnostics <i>CHAIR: Dr Y Li, Cranfield University</i>	Testing and monitoring in the building and construction industries (part 2) <i>CHAIR: Dr S Roe, BINDT</i>
16:25	Cavitation indices in power control of Kaplan water turbines <i>E Juuso, S Lahdelma, University of Oulu</i>	CARMEN: Complex data mining and visualisation <i>J Austin, T Jackson, M Fletcher, B Liang, M Jessop, University of York</i>	The impact of measurement noise on gas turbine GPA diagnostics <i>Y Li, Cranfield University</i>	An on-site study of the application of acoustic emission as part of a structural health monitoring system for wind turbine towers <i>T Bradshaw¹, C Ennaceur², Physical Acoustics¹, TW²</i>
16:50	Method and tools for maintainability design of machines in virtual environments <i>P Multanen¹, A Makiranta¹, S Lind², S Leino², Tampere University of Technology¹, VTT²</i>	Novelty detection in spectral data: outlier analysis and Bayesian factor analysis <i>J Hensman, K Worden, University of Sheffield</i>	Detecting and isolating gas turbine faults using a hierarchical neural network system <i>O Stephen, Cranfield University</i>	SESSION CHANGE: Infrared thermography for condition monitoring and NDT Random matrices for compressive IR imaging and condition monitoring <i>N Bose, Pennsylvania State University</i>
17:10	Using a dynamic roller bearing model under varying fault parameters <i>T Doguer, J Strackeljan, P Tkachuk, Otto von Guericke University of Magdeburg</i>	Aircraft engine health monitoring – advanced prognosis using density modelling and extreme value statistics <i>S Sundaram, Oxford Biosignals</i>	The application of time sequence model in the thermal parameters monitoring system of gas turbine power plant <i>Z Huisheng, Shanghai Jiao Tong University</i>	Assessment of pulse thermography on the detection of defects in carbon fibre reinforced epoxy laminates <i>J Nunn, W Broughton, National Physics Laboratory</i>
17:30	Consideration of recommended operating region for inverter-driven pumps <i>T Ahonen¹, J Ahola¹, J Tamminen¹, J Kestila², Lappeeranta University of Technology¹, ABB Drives²</i>	SESSION CHANGE: Future Inspection and monitoring technologies for the energy industry <i>CHAIR: Dr T Gan, TWI</i> Monitoring the structural health of pipelines using long-range ultrasonics <i>G Edwards, TWI</i>	Gas turbine off-design performance model improvement for diagnostics <i>L Wang¹, Y Li¹, Y Luoxiang², Z yin², K Huang², Cranfield University¹, China Aviation Powerplant Research Institute</i>	SESSION CHANGE: Condition monitoring – the tool for proactive maintenance <i>CHAIR: Dr I Razuvaev, Alcor Corp.</i> Integrated condition monitoring of the refinery and chemical plants <i>A Derigugin¹, V Iakunin², I Razuvaev², A Shiriaev², V Vustin¹, JSC, Alcor Corp.²</i>
17:50	A wireless approach to water supply pump diagnosis <i>M Paavola, R Nikula, University of Oulu</i>	Enhanced computer tomography of multi-density components using a developmental dual energy image processing technique <i>M Amos, TWI</i>	Gas turbine diagnostic analysis <i>S Yepifanov, O Sokolov, M Ugryumov, I Trofimova, National Aerospace University of Ukraine</i>	Maintenance driven by acoustic emission monitoring <i>P Tscheliesnig, G Lackner, TUV Austria Services GMBH</i>

19:00 for 19:30 Conference Dinner

Thursday 25th June

08:00	Registration
08:30	PLENARY INVITED DISTINGUISHED: Adaptive features in condition monitoring systems <i>Prof I Strackeljan¹, Prof S Lahdelma², Germany¹, Finland²</i>

09:00 Tea & coffee

	8A	8B	8C	8D
	Case studies <i>CHAIR: Prof Volkovas, Kaunas University of Technology</i>	NDE and structured monitoring of complex structures and materials (part 1) <i>CHAIR: Prof L Fradkin, London South Bank University</i>	Real-time condition monitoring of the equipment continuous manufactures (part1) <i>CHAIR: Prof V Kostyukov, Omsk State Transport University</i>	Condition monitoring and measurement <i>CHAIR: Prof A Hope, Southampton Solent University</i>
09:20	Application of condition monitoring to large diameter pressure pipes in the Australian water sector <i>D Marlow, CSIRO Land & Water</i>	Ultrasonic modelling of surface-breaking cracks <i>L Fradkin, London South Bank University</i>	On-board real-time condition monitoring system of electrical train <i>V Kostyukov¹, V Starikov¹, A Zajcev¹, A Kostyukov², A Schelkanov², Omsk State Transport University¹, SPC Dynamics²</i>	Improving equipment availability through application of condition monitoring techniques <i>V Fox, BAE Systems</i>
09:45	Rotor bow in a 230mw steam turbine: a case study <i>T Galka, Institute of Power Engineering, Poland</i>	Modelling propagation of ultrasonic guided waves in the layered steel / grout / steel structures <i>V Zernov, L Fradkin, London South Bank University</i>	Increase of safety and operating efficiency of continuous production cycle enterprises based on real-time complex condition monitoring of equipment <i>A Kostyukov, Omsk State Transport University</i>	The use of predictive maintenance in the marine sector including case histories <i>D Beech, H Harper, VCI Consultancy Ltd</i>

10:05	Selecting relevant signal components for effective monitoring and process control <i>M McCann, University of Ulster</i>	Innovative transducers for condition monitoring using ultrasonic guided waves <i>P Mudge, A Haig, TWI</i>	Stationary complex diagnostic system for electrical trains <i>A Kostyukov¹, A Lagaev², D Kazarin², SPC Dynamics¹, Omsk State Transport University²</i>	Accuracy monitoring of information – measuring systems <i>V Giniotis¹, M Rybokas¹, A Hope², Gediminas Technical University¹, Southampton Solent University²</i>
10:25	Remote condition data acquisition system for hydraulic crawler crane monitoring <i>C He, C Liu, Y Li, Y Huang, Shanghai Jiaotong University</i>	Application of simulation to NDE reliability assessment <i>P Calmon, F Jenson, S Mahaut, CEA LIST</i>	Equipment diagnostic expert system <i>S Boichenko, V Kostyukov, Institute of Radio, Electronics, Service and Diagnostics</i>	Incorporating damage models in deterministic system models to model reliability in time-varying systems <i>M Lipsett, University of Alberta</i>
10:45	Diagnostics of the movable reflector modulator of the IBR-2 pulsed research reactor on the base analysis radioactive impurities in oil <i>V Sizarev, N.A. Dollezhal Research and Development Institute of Power Engineering</i>	Dispersion compensation method for lamb wave tomography <i>H Xu, C Xu, S Zhou, Y Gong, Y Hu, Beijing Institute of Technology</i>	Real-time condition monitoring of machinery <i>V Kostyukov, Omsk State Transport University</i>	The method of indirect states monitoring of dispersed electric drives <i>J Swider, M Hetmanczyk, The Silesian University of Technology</i>

11:05 Break

11:15	Panel Session
12:00	COMADIT Prize Lecture: Prof Tony Hope, University of Southampton

12:20 Lunch

	9A	9B	9C
	Condition monitoring in the marine industry <i>CHAIR: Mr B Hargreaves, RCM Marine</i>	NDE and structured monitoring of complex structures and materials (part 2) <i>CHAIR: Prof L Fradkin, London South Bank University</i>	Real-time condition monitoring of the equipment continuous manufactures (part 2) <i>CHAIR: Prof V Kostyukov, Omsk State Transport University</i>
13:05	The increasing importance of ITC in marine condition monitoring <i>B Hargreaves, RCM Marine</i>	Defect location in laminated composite structure based on the wavelet transform <i>H Xu, C Xu, S Zhou, Y Gong, Y Hu, Beijing Institute of Technology</i>	Monitoring of refining equipment <i>V Kostyukov, S Boichenko, E Tarasov, SPC Dynamics</i>
13:30	Fault detection of a large diesel engine by analyzing the instantaneous crankshaft angular speed <i>M Desbazeille¹, F Guillet¹, M El Badaoui¹, R Randall², C Hoisnard³, University of St Etienne¹, University of New South Wales², EDF R&D³</i>		Real-time condition monitoring of reciprocating machines <i>A Naumenko, Omsk State Transport University</i>
13:55	Advanced condition monitoring of marine diesel engines <i>V Shetty, D Shepherd, QinetiQ</i>		Automated diagnostics of electrical rolling stock pantograph <i>V Starikov¹, V Repiov², Omsk State Transport University², SPC Dynamics²</i>

14:10 Conference Closing Ceremony