

QIRT 2010 - Preliminary program (version 2, June 25th, 2010)

Legend

Acronyms	
BM	Biomedical Applications
CE	Civil Engineering
CM	Calibration and Metrology
E&S	Electronics & Semiconductors
ENV	Environment
FD	Fluid Dynamics & Energetics
IDP	Image & Data Processing
IRS&R	IR Signature & Recognition
ML	Modeling
MM	Monitoring & Maintenance
MS	Microscale Applications
NDE	NonDestructive Evaluation & Testing
NT	New Technologies
PPA	Photothermal and PhotoAcoustic techniques
SM	Solid Mechanics
TP	Thermophysics
TSR	TSR (Thermographic Signal Reconstruction) method
WA&B	Works of Art & Buildings

Note: please check your entry (ies)

Note: the program will be updated regularly, as we move towards the conference.

Rooms	
Room A	2320, Pavillon Desjardins
Room B	2530, Pavillon Desjardins: Amphithéâtre Hydro-Québec
Room C	2326, Pavillon Desjardins
Internet room	2300, Pavillon Desjardins (*, **)
Registration	Agora, Pavillon Desjardins (first floor, main hall)
Poster	Agora, Pavillon Desjardins (first floor, main hall)
Exhibit, Coffee Break	2470, Pavillon Desjardins on Thursday afternoon and Friday morning, the Coffee breaks will be held outside the 2470.
Lunch	"Le Cercle", 4th floor Pavillon Desjardins, take the elevators Note: on Monday, the lunch will be taken at "Le Pub", Pavillon Desjardins, 1st floor

(*) Our research group will take the opportunity of QIRT 2010 to record (near) infrared and visible signature of participant's faces, on a voluntary basis. A complementary gift will be given for those participating to this activity which will take place Tuesday to Thursday in the Internet room: Please come!

(**) Complimentary wireless internet access will be available (in a limited number), inquire for your password at the registration desk.

On Friday, there will be a visit of the Vision lab. The Vision lab is located in Pavillion Pouliot, room 00100. It is required to sign the sheets at the registration desk to form groups.

QIRT 2010

July 25th, 2010 - Sunday

Schedule

15:30

17:00

Registration

QIRT 2010

July 26th, 2010 - Monday

Preconference COURSES			
Schedule	Registration: all day until 17:30		
08:30	Room A Room B		
09:00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> A - Basic Thermography Prof. V. Vavilov, Tomsk Polytechnic Institute, Russia Prof. X. Maldague, Université Laval, Canada </td> <td style="width: 50%; vertical-align: top;"> D - Cultural Heritage and buildings Prof. E. Grinzato, CNR-ITC, Padova, Italy </td> </tr> </table>	A - Basic Thermography Prof. V. Vavilov, Tomsk Polytechnic Institute, Russia Prof. X. Maldague, Université Laval, Canada	D - Cultural Heritage and buildings Prof. E. Grinzato, CNR-ITC, Padova, Italy
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12:20	LUNCH		
14:00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> C - Application to Solids Prof. G. Busse, Universität Stuttgart, Germany </td> <td style="width: 50%; vertical-align: top;"> B - Application to Fluids Prof. G. M. Carlomagno, Università di Napoli Federico II, Italy </td> </tr> </table>	C - Application to Solids Prof. G. Busse, Universität Stuttgart, Germany	B - Application to Fluids Prof. G. M. Carlomagno, Università di Napoli Federico II, Italy
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17:20			

Schedule	Room A	Room B	Room C
8:00	Registration: all day until 18:30		
8:30	Opening ceremony		
8:50	Plenary: D. Balageas, Personal thoughts on the occasion of the Xth QIRT Conference		
	Calibration and Metrology, chair: TBA	NDE, chair: TBA	Fluid Dynamics & Energetics, chair: TBA
9:35	Shape and temperature field distortions induced by convective effect on hot object in the near infrared and infrared spectral band Delmas A., Le Maout Y., Buchlin J.M., Sentenac T., Orteu J.J.	Feature-extraction from lockin-thermography phase-images Holtmann N., Spiessberger C., Gleiter A., Busse G.	Experimental assessment of a new technique for measuring heat transfer coefficients Carlomagno G.M., Discetti S., Astarita T.
10:00	Temperature measurement at large distance of plasma-facing surfaces in fusion reactor by active pyrometry Melyukov D., Sortais C., Farcage D., Semerok A., Thro P.Y., Gauthier E.	Lock-in Thermography for Process Integrated Non-destructive Evaluation of Carbon Fiber Reinforced Aircraft Structures Ullmann T., Aoki R. and Schmidt T.	Investigation of Gortler vortices in a hypersonic double compression ramp flow by means of infrared thermography Schrijer F.F.J.
10:25	BREAK - EXHIBIT		
	Biomedical Applications, chair: TBA	NDE, chair: TBA	Fluid Dynamics & Energetics, chair: TBA
10:50	Implementation of Active Dynamic Thermography in medical diagnostics Nowakowski A.	Defect sizing by local excitation thermography Schlichting J., Kervalishvili G.N., Maierhofer Ch., Kreutzbruck M.	Transition detection on an Ultra-Streamlined vehicle using IR thermography Planquart Ph., Claesen A. and Buchlin J.M.
11:15	Infrared monitoring of laser-tissue interaction for dermatological applications Rippa M., Petti L., Merla A., Baldo A., Monfregola G., Mormile P.	Multimodal Defect Quantification Huebner S., Stackelberg B.V. and Fuchs T.	IR wall heat transfer in swirling impinging jets Ianiro A., Cardone G., Carlomagno G. M.
11:40	Continuous monitoring of radiotherapy through infrared image processing Benkő I., Kóteles G.J.	Signal to noise ratio (SNR) comparison for lockin thermographic data processing methods in CFRP specimen Madruga F. J., Albendea P., Ibarra-Castanedo C., López-Higuera J. M.	Heat transfer investigation in an hypersonic boundary layer Schreibvogel P., Paniagua G., Bottini H., Masutti D., Chazot O., Solano J.P.
12:05	Clinical Applications of Medical Thermography Mostovoy A.	NDT characterisation of carbon-fibre and glass-fibre composites using non-invasive imaging techniques Avdelidis N.P., Ibarra-Castanedo C., Bendada, A., Saarimaki E., Kauppinen T., Kouli M., Maldague X.P.V.	Infrared thermography measurements on ablative thermal protection systems for interplanetary space vehicles Asma C.O., Helber B., Di Lello L., Magin T.
12:30	LUNCH-EXHIBIT		
	Biomedical Applications, chair: TBA	NDE, chair: TBA	Solid Mechanics, chair: TBA
14:00	Observing Temperature Fluctuations in Humans Using Infrared Imaging Liu W., Meyer J., Elster E., Gorbach A.	Ultrasound lockin thermography as a quantitative technique for quality control assessment of cast iron turbine components Montanini R., Rossi G.L., Freni F.	Temperature visualisation of shape memory alloy various behavior Pieczyska E., Tobushi H.
14:25	Finger Thermoregulatory Model Assessing Functional Impairment in Raynaud's Phenomenon Mariotti A., Grossi G., Amerio P., Orlando G., Mattei P. A., Tulli A., Romani G. L., Merla A.	Structural-thermal FE simulation of vibration and heat generation of cracked steel plates due to ultrasound excitation used for vibrothermography Plum R. and Ummerhofer T.	Full Field Experimental stress/strain analysis by Thermographic stress analyser for fatigue crack detection during HCF Testing. Examples in Automotive and Aircraft industry Bremont P.
14:50	Decision classification criteria for ADT in burn diagnostic basing on in-vivo animal experiments Kaczmarek M.	Using ultrasound infrared thermography to detect defects in pipes Park H.S., Choi M.Y., Park J. H., Lee S.S.	Thermoelastic stress analysis of titanium components and simultaneous assessment of residual stress Galietti U., Palumbo D.
15:15	Imaging and quantitative characterization of bilateral vasomotor reactions in humans using high-performance thermography Vainer B.G., Markel A.L.	Infrared thermography and ultrasonic C-Scan for non destructive evaluation of aerospace materials: A comparative study Duan Y., Wu N., Maldague X., Zhang C., Li X.	Experimental procedure and characterization of the thermo-elastic behaviour of rubber-like materials Boucart N., Brieu M., Desplanques Y., Kondo D.
15:40	BREAK - EXHIBIT		
	Biomedical Applications, chair: TBA	NDE, chair: TBA	IR Signature & Recognition, chair: TBA
16:00	Real-time monitoring of dental lesions using transmission-mode photothermal radiometry and modulated luminescence Hellen A., Mandelis A., Finer Y., Amaechi B.T.	Identification and localization of surface and buried heat sources through curve fitting of the temperature-time profile for vibrothermography Holland S.D.	Automatic defect classification in inductive thermo-graphical testing Oswald-Tranta B. and Sorger M.
16:25	Time-Frequency Analysis of Skin Temperature in a Patient with a Surface Tumor Monitored with Infrared Imaging Scully C.G., Liu W., Meyer J., Dementyev A., Chon K.H., Innominato P., Lévi F., Gorbach A.M.	An experimental study of sub-surface defects detection of bakelite using active mode thermography Umar M.Z., Hamzah A. R., Vavilov V.	Infrared Face Recognition: A Review of the State of the Art Ghiass R.S., Bendada A., Maldague X.
16:50	Wavelength-modulated differential photothermal radiometry for non-invasive blood glucose detection Guo X., Mandelis A., Matvienko A. Sivagurunathan, K., Zinman B.	Infrared thermography analysis of the equipment beneath the chassis of metropolitan railway vehicle Capote, J. A., Alvear, D., Abreu, O. V1, Lázaro, M., Hernando, J2	Quantitative method of evaluating for recognize people, based on thermograms Grzegorz Owczarek, Robert Strakowski, Maria Wiecek
	Novel Techniques, chair: TBA		
17:15	Quantitative dual-spectrum infrared approach for breast cancer detection Lee C.Y., Chang Z.W., Chuang C.C., Lee W.J., Lee C.Y., Lee S.C., Huang C.S., Chang Y.C., Chen C.M.	Thermal converter for 2D real-time TeraHertz imaging using standard InfraRed camera Pradere C., Salort S., Caumes J-P., Chassagne B. and Batsale J.C.	A new fusion framework for multispectral IR face recognition in the texture space Akhloufi M., Bendada A.
17:40	Wavelet based statistical descriptor for precise decision making in the interpretation of breast cancer thermographs Selvarasu N., Nachiappan A.	Near infrared imaging for multi-polar civilian applications Ebeid A., Ibarra-Castanedo C., Bendada A. and Maldague X.	Multispectral infrared face recognition: a comparative study Akhloufi M., Bendada A.
18:05			
19:05	Poster - Cocktail		
20:35			

July 28th, 2010 - Wednesday

Schedule	Room A	Room B	Room C
8:00	Registration: all day until 15:00		
8:25	Plenary: C. Kumar N. Patel, Infrared Photo-Thermography for Standoff Detection of Explosive Substances at Distances up to 150 Meters		
	Electronics & Semiconductors, chair: TBA	Civil Engineering, chair: TBA	Fluid Dynamics & Energetics, chair: TBA
9:10	Quantitative imaging of physical parameters of breakdown sites and avalanche multiplication in solar cells by lock-in thermography Breitenstein O., Bauer J., Wagner J.-M.	High resolution and automatic survey of buildings by IR thermography Grinzato E., Cadelano G., Bison P., Peron F., Maldague X.	A novel Infrared Thermography (IRT) based experimental technique for distributed temperature measurements in hot gas flows Gallo M., Kunsch J.P., Rösgen T.
9:35	Interpretation of lock-in thermography on thin film solar cells implying dissipative and Peltier contributions Straube H. and Breitenstein O.	Investigating historic masonry structures at different depth with active thermography Maierhofer Ch., Krankenhagen R., Röllig M., Schiller M., Hennen Ch., Meinhardt J.	IR wall heat transfer in swirling impinging jets Ianiro A., Cardone G., Carlomagno G. M.
10:00		Diagnostic of insulated building walls of old restored constructions using active infrared thermography Larbi Youcef M.H.A., Ibos L., Feuillet V., Balcon P., Candau Y., Filloux A.	Effect of nozzle shape on local heat transfer distribution in impinging jets Herrero Martin R. and Buchlin J.M.
10:25	BREAK - EXHIBIT		
	Calibration and Metrology, chair: TBA	Monitoring & Maintenance, chair: TBA	Fluid Dynamics & Energetics, chair: TBA
10:50	Estimating and quantifying theoretical errors of temperature measurement in bi-spectral thermography Tortel V., Sfaxi Y., Khelalfa R.	Application of thermal methods for characterization of welded joints Galiatti U., Ginex A., Palumbo D.	Heat transfer enhancement with ribs in natural convection Cardone G., Panelli M.
11:15	New approach on determination of emissivity fields using bicolor reflectometry technique Gilblas R., Sentenac T., Hernandez D., Le Maout Y.	Study of the heating of a glass substrate in a spray CVD reactor Logerais P.O., Riou O., Garnier J. Bouteville A.	A novel technique for the continuous evaluation of a burning rate of solid rocket propellant by using IR thermography Swiderski W., Miszczak M., Panas A.
11:40	Fast and accurate calibration-based thermal / colour sensors registration St-Laurent L., Prévost D., Maldague X.	Automated defect detection in large-scale bonded parts by active thermography Thiemann C., Zaeh M. F., Srajbr C., Boehm S.	IR imaging for stability analysis of industrial burner Allouis C., Pagliara R., Saponaro A.
12:05	Pixel-wise advanced calibration method for infrared cameras Tremblay P., Belhumeur L., Chamberland M., Villemare A., Dubois P., Marcotte F., Belzile C., Farley V. and Lagueux P.	Optical characterization of growing thin films at high temperatures by analysis of near infrared emissivity variations using CCD thermal imaging Zauner G., Mayrhofer F. and Hendorfer G.	High throughput characterization of gas/solid systems using infrared thermography Jolly J., Pavageau B., Tatibouët J.M.
12:30	LUNCH-EXHIBIT		
	Calibration and Metrology, chair: TBA	Monitoring & Maintenance, chair: TBA	Fluid Dynamics & Energetics, chair: TBA
14:00	Thermoelastic analysis of a bearing-cage seam weld Planting E., Parvataneni R., Zhou Y., Mayyas A., Nakagawa J., Omar M.	Estimation of steel slag parameters using thermal imaging and neural networks classification Wiecek M., Strakowski R., Wiecek B., Olbrycht R., Świętczak T., Wittchen W., Borecki M.	Frequency analysis of convective cooling for the multi heat-source electronic systems – modeling and IR measurements Świątczak T., Wiecek B., De Mey G.
14:25	Use of extension tubes in thermography Kaluza M., Wiecek B.	Calculation and infrared measurement identification of shell temperature distribution on overhead heat pipeline placed in open air space Kruczek T., Fic A.	Implementation of thermography for determination of air jet geometry in HVAC systems Švaić S., Boras I., Ferdelji N.
14:50	BREAK - EXHIBIT		
15:10			
16:15	Buses leaves for Banquet (from South DESJARDINS entrance, close to LE PUB) to the Wandake First Nation Village		
...			
22:00	Bus returns		

Schedule	Room A	Room B	Room C
8:00	Registration: all day until 18:30		
8:25	Plenary: A. Mandelis, Infrared Lock-in Carrierography (PhotocARRIER Radiometric Imaging) of Semiconductors and Si Solar Cells		
	Photothermal and Photoacoustic techniques, chair: TBA	TSR (Thermographic Signal Reconstruction) method, chair: TBA	Thermophysics, chair: TBA
9:10	Boundary Effects on the Efficiency of Direct Infra-Red Optical Tomography Boulanger J., Balima O., Charette A.	TSR: origins and observations Shepard S.M.	Simple possibilities of thermal diffusivity estimation for small size samples, with a laser pulse or step heating and infrared cameras Ayvazyan V., Batsale J-C., Pradere C.
9:35	Thermographic Assessment of Cold Stimulation on Autonomic Vascular Reactions Edwards S.	Thickness or diffusivity measurements from front-face flash experiments using the TSR approach Balageas D.L.	Porosity Determination by Pulsed Thermography in Reflection Mode Mayr G., Hendorfer G.
10:00	Free carrier diffusion-wave modulation of a sub-bandgap cw laser beam Mandelis A., Tolev J.	Thermographic Signal Reconstruction with periodic temperature variation applied to moisture classification Bison P., Cadelano G. and Grinzato E.	Improved algorithm to reconstruct the thermal conductivity depth profile in hardened steels Celorio R., Apiñaniz E., Mendioroz A., Salazar, A., Mandelis A.
10:25	BREAK - EXHIBIT		
	Photothermal and Photoacoustic techniques, chair: TBA	TSR (Thermographic Signal Reconstruction) method, chair: TBA	Thermophysics, chair: TBA
10:50	Dual-Mode Photoacoustic Phased-Array Imager for Biomedical Applications Telenkov S., Mandelis A.	Quantitative assessment of the improvement of the detection of defects by pulse stimulated thermography thanks to the use of the TSR approach. Case of a smart composite repair patch Balageas Daniel L., Chapuis B., Deban G., Passilly F.	Accurate measurements of the thermal diffusivity of thin films and thin filaments using lock-in thermography Salazar A., Mendioroz A., Fuente R., Celorio R.
11:15	Thermophotonic lock-in imaging: An active thermography system for detecting early carious lesions in human teeth Tabatabaei N., Mandelis A., Amaechi B.T.	A hybrid pulsed thermography processing technique for the depth estimation of subsurface defects combining TSR and PPT Klein M., Bendada A., Ibarra-Castanedo C., Maldague X.P.V.	Dual-band active thermography on infrared transparent materials Abuhamad M., Netzelmann U.
11:40	Large dimension photothermal screen for the characterization of very short pulsed microwave fields using infrared thermography Balageas D.L., Levesque P.	Comparison of the defect detection capabilities of flash thermography and vibration excitation shearography Pickering S.G., Almond D.P.	Phase lock-in laser active pyrometry for surface layer characterisation of Tokamaks walls Melyukov D., Sortais C., Semerok, A., Thro P.Y., Courtois X., Farcage D.
	Microscale Applications, chair: TBA		
12:05	Heterodyne techniques for the measurement of high frequency (up to 10 kHz) periodic thermal excitation with InfraRed camera Clerjaud L., Pradere C., Dilhaire S., Batsale J.C.		Extending Flash Thermography Method for Thermal Diffusivity Measurements using Finite Pulse Widths Vageswar A., Balasubramaniam K., Krishnamurthy C.V.
12:30	LUNCH-EXHIBIT		
14:00	Plenary: J.-C. Krapez, A combination of temperature, vegetation index, and albedo measurements obtained by airborne hyperspectral remote sensing for the evaluation of soil surface moisture		
	Microscale Applications, chair: TBA	Image & Data Processing, chair: TBA	Environment, chair: TBA
14:45	Thermal characterization of silicon integrated spiral inductors by thermal impedance using transient thermography – first approach Kaluza M., Wiecek B., Hatzopoulos A., Chatziathanasiou V., De Mey G.	Some novel approaches to thermal tomography of CFRP composites Vavilov V.	Infrared thermography of solid surfaces under fire Meléndez J., Foronda A., Aranda J.M., López F.
15:10	Thermal analysis of Fluid flow in microchannels. Application to nanofluids Fudym O., Sepúlveda F., Massard H.	Random photothermal thermography: Principle and examples of applications Bodnar J.L., Candoré J.C., Nicolas J.L., Charon D., Grosse P.	Implementation of an infrared camera for road thermal mapping Marchetti M., Moutton M., Ludwig S., Ibos L., Dumoulin J.
15:35	BREAK		
	Modeling, chair: TBA	Image & Data Processing, chair: TBA	Works of Art & Buildings, chair: TBA
15:55	Detecting hidden defects on a thin metallic plate Bison P., Ceseri M., Inglese G.	Spatio-temporal filtering of active thermography data for noise reduction and data compression Alsaadawi Z., Netzelmann U.	Approach of the in situ measurement of thermal diffusivity of mural paintings with stimulated infra-red thermography Candoré J.C., Bodnar J.L., Detalle V., Grosse P., Remy B.
16:20	An Implicit Finite-Difference model for Thermal Processes Simulation and Surveys Ghodsí G., Gavrílov D., Maeva E., Maev R. Gr.	On-off modulated thermography of composite material and signal processing Xingwang G., Zheng L., Yingtao L.	A Comparison of Near- and Mid-Infrared band reflectography for the aids of artwork diagnostics Gavrílov D., Kais C., Maeva E., Maev R.Gr.
16:45	Near infra-red imaging with the radiative transfer equation: A comparative study with finite elements Balima O., Boulanger J., Charette A., Marceau D.	Fourier based stabilisation of thermal images in dynamic thermography Moderhak M.	Active thermography data processing for the NDT&E of frescoes Bendada A., Sfarra S., Ambrosini D., Paoletti D., Ibarra-Castanedo C., Maldague X.P.V.
17:10	Finite element analysis of heat generation in ultrasonic thermography Saboktakin A., Ibarra-Castanedo C., Bendada A., Maldague X.		
17:35			

July 30th, 2010 - Friday

Schedule	Room A	Room B	Room C
8:00	Registration: all day until 12:00		
8:25	Plenary: T. Sakagami, Y. Izumi, N. Mori, S. Kubo, Development of self-reference lock-in thermography and its application to remote nondestructive inspection of fatigue cracks in steel bridges		
	Civil Engineering, chair: TBA	Image & Data Processing, chair: TBA	Modeling, chair: TBA
9:10	Influence of air-gaps on the thermal behaviour of the plaster-concrete bond Krankenhausen R., Kervalishvili G.N., Maierhofer Ch.	Signal to noise ratio (SNR) comparison for pulsed thermographic data processing methods applied to welding defect detection Albendea P., Madruga F. J., Cobo A., López-Higuera J.M.	Estimation of the Spatial Distribution of High Impulsed Heat Flux Stimulations Through Infrared Thermography Remy B., Degiovanni A., Lasserre J.P., Loreau Y., Voisin L., Desanlis T., Birel B., Galtié A.
9:35	DEFBETIR: Detection by infrared thermography of the heat signature of diseases and defects in concrete structures of civil engineering Nahant M., Paez S.	Region of Interest Extraction based on Multi-resolution Analysis for Infrared Nondestructive Testing Ortiz-Jaramillo B., Benitez-Restrepo H., Garcia-Álvarez J., Castellanos-Dominguez G.	IR non destructive testing experiment design Necsulescu D., Bayat S.
10:00	Development of an acclimatized chamber for IR based diagnostic research Bortoni E.C., Santos L., Bastos G.S., Souza L.E., Craveiro M.A.C.	Application of the Source Distribution Image (SDI) procedure for porosity detection in honeycomb structures Susa M., Maldague X., Boras I.	Thermal Sensitivity Analysis Applied on Infrared Thermography Evaluation Lopez F. R, Nicolau V. P.
10:25	BREAK		
	Civil Engineering, chair: TBA	Image & Data Processing, chair: TBA	Modeling, chair: TBA
10:50	Evaluation of FRP gluing on concrete structures by active infrared thermography Dumoulin J., Ibarra-Castanedo C., Quiertant M., Taillade F., Bendada A., Maldague X.	Defect detection and characterisation in composite materials using active IR thermography coupled with SVD analysis and thermal quadrupole modeling Feuillet V., Ibos L., Fois M., Dumoulin J., Candau Y.	Cross-correlation Based Compression Techniques for Frequency Modulated Thermal Wave Imaging Subbarao G.V., Mulaveesala R., Takei M.
11:15	Hybrid Digital Image Correlation/Thermographic System for Displacement and Defects in Civil Engineering Structures Observation Kujawinska M., Bukalska M., Dymny G., Malowany K., Siwek B.	Probability of detection for in field thermal non destructive testing of aircraft composite structures Servais P., Ibarra-Castanedo C., Maldague X., Gélébart Y.	Development of models to extract ambient variables influence from outdoor thermographic inspections Bortoni E.C., Santos L.
11:40	Closing ceremony		
11:55	End of QIRT 10		
14:00	Optional visit of the Vision lab		
15:00	(sign the sheet at the registration desk)		

POSTER SESSION

Topics	QIRT log #	Authors	Title
BM	1 QIRT2010-078	Lyzhko E.	Physiological characteristics of heat and cold weak effects in the Zakharin-Head zones
BM	2 QIRT2010-085	Matvienko A., Mandelis A., Hellen A., Jeon R., Abrams S. H., Amaechi B. T.	Quantitative analysis of dental tissue properties using photothermal radiometry
CM	3 QIRT2010-094	Moderhak M., Bajorek M.	The influence of carbon dioxide on dynamic thermography results
CM	4 QIRT2010-101	Olbrycht R., Więcek B.	New method for two-point nonuniformity correction of microbolometer detectors
E&S	5 QIRT2010-116	Rybiński J., Bednarek M., Wiśniewski P., Świetlik T.	Application of thermal camera to optimize assembly methods of laser diodes
E&S	6 QIRT2010-144	Vainer B.G., Kamaev G. N.	Narrow-band infrared examination of solid-state structures
Env	7 QIRT2010-074	Lesniak A., Bukowska-Belniak B.	Detecting the wastewater leakage from cesspool using noisy thermographic images
IDP	8 QIRT2010-016	Benkö I.	Analysis of infrared images in integrated-circuit techniques by mathematical filtering
IDP	9 QIRT2010-027	Bukowska-Belniak B., Leśniak A., Stasz A., Kielkowski P., Michalski R.	Detection of foreign bodies in comestible product using sequence of low contrast thermographic images
IDP	10 QIRT2010-036	Dudzik S.	Application of the morphological operations for defect area recognition using active thermography
IDP	11 QIRT2010-040	Fidali M.	Analysis of Fourier images of thermograms for purposes of machine diagnostics
IDP	12 QIRT2010-051	Grys S., Minkina W.	Filtered thermal contrast – error analysis
IDP	13 QIRT2010-092	Minkina W., Dudzik S., Gryś S.	Errors of thermographic measurements – exercises
IDP	14 QIRT2010-114	Rogotis S., Chatziathanasiou V., Kadi S.	Digital analysis of thermal images
IDP	15 QIRT2010-149	Ziadi A., Saucier L., Maldague X.	Image analysis in computer vision: A high level means for Non-Destructive evaluation of the marbling in the beef meat
IDP	16 QIRT2010-164	Sahli S., Fissette S., Maldague X.	Infrared Image Processing for Online Quality Control in Laser Welding
IRS&R	17 QIRT2010-103	Ortiz-Jaramillo B., Garcia-Álvarez J., Rodríguez-Sotelo J., Peluffo-Ordóñez D., Castellanos-Domínguez G.	Region of interest extraction using redundant wavelet transform and unsupervised techniques on thermal imaging
NDE	18 QIRT2010-010	Bajorek M.	Analysis of the possibility of defect determination using cold excitation in thermal tomography
NDE	19 QIRT2010-061	Junyan L., Huijuan L., Yang W., Jingmin D.	Defect estimation of aircraft and aerospace components based on Neural Network using Lock-in thermography
NDE	20 QIRT2010-081	Maillard S., Cadith J., Chevallier C., Charron J.I., Walaszek H., Bodnar J. L., Candore J. C.	Towards the use of passive and active infrared thermography to inspect metallic components in the mechanical industry
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NDE	23 QIRT2010-119	Salazar A., Mendioroz A., Apiñaniz E., Oleaga A., Venegas P., Sáez-Ocáriz I.	Application of vibrothermography to the depth characterization of delaminations
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SM	31 QIRT2010-127	Stipetic S., Kutija M. and Vrazic M.	Application of IR thermography to measurements on synchronous hydrogenerator in rotation
WA	32 QIRT2010-028	Candoré J.C., Bodnar J.L., Detalle V., Grosse P.	Assistance to the restoration of historical frescoes by stimulated infrared thermography
WA&B	33 QIRT2010-065	Kisilewicz T., Wróbel A.	Quantitative infrared wall inspection
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