

QIRT-Asia 2017 Short Course

Pre-Conference Course of the 2nd Asian Conference on Quantitative Infrared Thermography

**5F Topaz Room, Interciti Hotel, Daejeon, Korea
July 3, 2017**

Objective

You will learn the basics of Infrared thermography, non-destructive testing and evaluation, about the IR camera, measurements, thermographic applications, IR inspection and its analysis methods. This course will prepare you for the main conference which will be covering various aspects of Infrared thermography.

Who should attend

This course is designed for beginners in thermography with no experience of handling the IR camera and limited knowledge who want to take the first step to know these techniques.

Fields Related to the course

Aeronautical Engineering

Automotive Engineering

Bio, Food, & Cultural Technology

Civil & Architectural Engineering

Computer Science Engineering

Communication, Electrical, Electronics, & Instrumentation Engineering

Mechanical & Nuclear Engineering

Medical Technology

Tentative Program

Time (hrs)	Title
9:30 - 10:50	Basic of IR Thermography I Prof. X. Maldague, Laval University (Canada)
10:50 - 11:10	Coffee Break
11:10 - 12:30	Basic of IR Thermography II Prof. X. Maldague, Laval University (Canada)
12:30 - 13:30	Lunch
13:30 - 14:50	Thermography application to Cultural Heritage and buildings Dr. Paolo Bison, Institute for Construction Technology of the National Research Council (Italy)
14:50 - 15:00	Coffee Break
15:00 - 16:20	IR Inspection of Infrastructures: Scope of Application, Technical Solutions and Analysis Methods Dr. Jean Dumoulin, IFSTTAR / Inria (France)

Eminent Speakers



Xavier Maldague, Ph.D., P. Eng. is professor at the Department of Electrical and Computing Engineering of Université Laval, Québec City, Canada (since 1989, head of the Dept. 2003-2008). He has trained over 50 graduate students (M.Sc. and Ph.D.) and has more than 300 publications. His research interests are in infrared thermography, NonDestructive Evaluation (NDE) techniques and vision / digital systems for industrial inspection. He holds a Tier 1 Canada Research Chair in Infrared Vision. He chairs the Quantitative Infrared Thermography (QIRT) Council. He is a fellow of the Canada Engineering Institute, an Honorary Fellow of the Indian Society of Nondestructive Testing and a fellow of the Alexander von Humboldt Foundation in Germany.



Paolo Bison is senior researcher at the Institute for Construction Technology of the National Research Council of Italy. He got the degree in Physical Sciences at the University of Padova (Italy). From 1988 until 2001 he was a researcher at the CNR-ITEF (National Research Council – Institute for the Refrigeration Technology). During 1995 he was the head of the research group on ‘Thermal Tomography’. From 1996 to 2000 he was the head of the research group on ‘Thermal Non-Destructive Testing’. He was member of the Scientific Council of CNR-ITEF from 1997 to 2001. Since 2001 he is a researcher of the CNR-ITC (National Research Council – Construction Technologies Institute). He was member of the CNR-ITC Institute Council from 2001 to 2005.

He is coauthor of several papers on international reviews and on proceedings of international conferences. He collaborated within several groups in regional, national and international projects. He contributed to several research contracts with the industry. His main field of investigations are: electronic instrumentation and software, image processing, thermal parameters measurement, thermal non-destructive testing, heat transfer process, thermography, photothermal methods.



Jean Dumoulin received his Ph.D. in energetic systems from the National Institute of Applied Sciences (INSA) of Toulouse in 1994, specializing in disturbed aerodynamic wall heat transfer identification by infrared thermography (research works carried out at ONERA). From 1994 to 1997, he has been associate research engineer in the former Department of Studies and Research in Mechanics and Energetic Systems at the French National Aerospace Research Institute (ONERA) and associate lecturer at the Civil Engineering Department of INSA Toulouse. He joined the French Institute of science and technology for transport, development and networks (IFSTTAR :previously LCPC : Laboratoire Central des Ponts et Chaussées) in 1997.

He is currently Deputy Director of SII (Structures and Integrated Instrumentation) Laboratory in COSYS (Components and Systems) Department at IFSTTAR and member of Inria joint research team I4S (Statistical Inference for Structural Health Monitoring).

His current research topics deal with thermal and optical methods and models for energy efficiency assessment and structural monitoring. He also has many years of experience in conducting and carrying out research and development studies with industrials and SMEs.

Registration Form of Short Course in QIRT-Asia 2017 Conference

Full Name:		Title:	
Organization:			
Address:			
City:		Country:	
Phone:	Fax:	E-mail:	

- The fees for the short course are:
QIRT-Asia 2017 Registrant : US\$ 100
QIRT-Asia 2017 Non- Registrant : US\$ 200
- *Bank Account for Payment:*
Account Holder: The Korean Society for Nondestructive Testing (KSNT)
Account Number: 186-03659-247-01 (Citi Bank)
Branch Name: Korean Federation of Science & Technology Societies DTO
Swift Code: CITIKRSXXXX
Bank Address: #39, Da-Dong, Jung-Gu, SEOUL, 04521, KOREA

Please fill in the form and send it together with the bank receipt, by E-Mail or Facsimile to

QIRT-Asia 2017 Secretariat
KOFST Center Suite 903, 22, Teheran-ro 7 Gil, Gangnam-gu,
Seoul 06130, Republic of Korea
Phone: +82-2-563-7564, Fax: +82-2-582-2743, Email : secretariat@qirtasia2017.com

※ Registration for the short course can also be made using the same registration system for the main Conference (available at www.qirtasia2017.com)

Wontae Kim

Chairman, QIRT-ASIA 2017
Professor, Div. of Mechanical & Automotive Engineering
Kongju National University, Cheonan
Chungnam, 31080, Rep. of Korea
Tel: 82-10-3409-1123 Fax: 82-41-555-9123
Email: kwt@kongju.ac.kr