CHINA–SCOTLAND SIGNAL AND IMAGE PROCESSING RESEARCH ACADEMY (SIPRA)

中国-苏格兰信号图像处理研究院

FIFTH CHINA-SCOTLAND SIPRA WORKSHOP
NEXT GENERATION INTELLIGENT SIGNAL IMAGE PROCESSING TECHNOLOGIES AND APPLICATIONS

ROOM 2A73, COTTRELL BUILDING
DIVISION OF COMPUTING SCIENCE AND MATHEMATICS
UNIVERSITY OF STIRLING, SCOTLAND, UK

11-12 APRIL 2013

DAY 1   THURSDAY 11 APRIL 2013

09.00-10.15   Delegate Registration and Refreshments

OPENING SESSION
CHAIR: **Professor T S Durrani**

10.15-10.30   *Welcome*
Professor Edmund Burke
Deputy Principal Research, University of Stirling

10.30-11.00   *Background to Workshop*
Workshop Co-chairs:
Professors Tariq Durrani and Amir Hussain, University of Stirling

PLENARY: **THEME 1: SECURITY AND SURVEILLANCE**
CHAIR: **Professor T S Durrani**

11.00-11.30   *'Visual Computing for Enhanced Security'*
Professor Tieniu TAN, National laboratory for Patten Recognition, Beijing

11.30-12.00   *'A Novel Method for Group Target Tracking'*
Professor Jun Wang, Beihang University

12.00-12.15   *Discussion*

12.15-1400   **Lunch**

PLENARY: **CHAIR:**	**THEME 2: HYPER SPECTRAL IMAGING** **Professor Bin LUO**
14.00-14.30	*'Improved Sparce Representation for Effective Target Detection in Hyperspectral Imaging'* Dr Jinchang REN, University of Strathclyde
14.30-15.00	*'Hyperspectral Imaging- Diverse Applications* Professor Stephen Marshall, University of Strathclyde
15.00-15.15	*Discussion*
15.15-15.45	**Refreshment Break**

PLENARY: **CHAIR:**	**THEME 3: INFORMATION REPRESENTATION** **Professor Stephen Marshall**
15.45-16.15	*'Towards Understanding the Urban Information - Big Learning for Big Data'* Professor Qiao Wang, Southeast University
16.15-16.45	*'Graph-based Image Representation and Recognition'* Professor Luo Bin, Anhui University
16.45-17.00	*Discussion*
17.00-18.00	**PhD STUDENT POSTER SESSION**
19.00-21.30	**WORKSHOP DINNER**

DAY 2   FRIDAY 12 APRIL 2013

PLENARY 09.00-09.15	*'Summary of previous day's discussion'* Professor T S Durrani

PLENARY: **CHAIR:**	**THEME 4: PATTERN CLASSIFICATION** **Professor Qiao WANG**
09.15-09.45	*'Style Adaptive Pattern Field Classification'* Dr Cheng-Lin LIU National Laboratory for Pattern Recognition
09.45-10.15	*'Classification of Colorectal Polyp Regions in Optical Projection Tomography'* Dr Jianguo Zhang, University of Dundee
10.15-10.30	*Discussion*
10.30-11.00	**Refreshment Break**

| **PLENARY:** | **THEME 5: COGNITION** |
| **CHAIR:** | **Professor Jun WANG** |

11.00-11.30	*'Spectrum Sensing for Cognitive Radio'* Dr Mathini Sellathurai, Heriot-Watt University
11.30-12.00	*'Broadband Angle of Arrival Estimation'* Dr Stephan Weiss, University of Strathclyde
12.00-12.15	*Discussion*
12.15-1400	**Lunch**

| **PLENARY:** | **THEME 6: APPLICATIONS** |
| **CHAIR:** | **Professor Cheng-Lin LIU** |

14.00-14.30	*'Synthetic Aperture Radar Moving Target Detection and Its Application'* Dr Fei Gao, Beihang University
14.30-15.00	*'On hybrid switching differential equations with applications* Dr Jozsef Farkas, University of Stirling
15.00-15.15	*Discussion*
15.15-15.45	**Refreshment Break**

| **PLENARY:** | **THEME 7: COGNITION AND TRANSFORM TECHNIQUES** |
| **CHAIR:** | **Professor Tariq S Durrani** |

15.45-16.15	*'A Cognitive Control Framework for Autonomous Systems'* Professor Amir Hussain and Dr Erfu Yang, University of Stirling
16.15-15.45	*'Curvelet Transform for Image Denoising'* Dr Wei Zhao, Beihang University
16.45 -17.00	*Discussion*
17.00	**END OF WORKSHOP**