2013 8th International Conference on Computer Science & Education

(ICCSE 2013)

Colombo, Sri Lanka
26 - 28 April 2013

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Technical Program

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Yuntao Zhou  
Northwestern Polytechnic Univ.

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Liu Zhaoxin  
Liu Wenzhi  
Gu Caidong  
Suzhou Vocational Univ.  
Suzhou Vocational Univ.  
Jiangsu Province Support Software Engineering R&D Center for Modern Info.  
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Lv Xiaomeng  
Jiang Yufeng  
Wu Tongxiang  
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Caiquan Xiong  
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Hubei Univ. of Tech.  
Hubei Univ. of Tech.  
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Yuhong YANG  
Yu Hua  
Qingheng Chen  
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Ningbo Dahongying Univ.  
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Zhejiang Univ. of Tech.

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Xiubo Liang  
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Xiaohu Yang  
Zhejiang Univ.  
Zhejiang Univ.  
Zhejiang Univ.

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Baobin Liu  
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Li Zhanhuai  
Zhang Xiao  
Wang Hufen  
He Qihu  
Northwestern Polytechnic Univ.  
Northwestern Polytechnic Univ.  
Northwestern Polytechnic Univ.  
Northwestern Polytechnic Univ.  
Northwestern Polytechnic Univ.

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Univ. of Colombo School of Computing  
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Xiamen Univ.  
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Liu Zhaoxin  
Liu Wenzhi  
Zeng Hai  
Jiangsu Province Support Software Engineering R&D Center for Modern Info.  
Tech. Application in Enterprise  
Jiangsu Province Support Software Engineering R&D Center for Modern Info.  
Tech. Application in Enterprise

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XIONG Cai-quan  
CHEN Shao-bin  
DING Ming  
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Quyan Jiankun  
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Qing WANG  
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China Academic of Space Tech.

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Pichao WANG  
Hao ZHANG  
Han ZHOU  
Tianjin Univ.  
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Tianjin Univ.

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Chun Zhiqiang  
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WANG Xiu-ling  
Beijing Inst. of Graphic Communication

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Chunying Zhang  
Hebei United Univ.  
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Xue Zhang  
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Qinghong Yang  
Jiangxi Normal Univ.  
Guanghua Deng  
Jiangxi Normal Univ.  
Neng Xiong  
Jiangxi Normal Univ.

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Urmila Shrawankar  
G.H. Raisoni College of Engineering  
Bharat Kapse  
G.H. Raisoni College of Engineering

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Yangjie Cao  
Zhengzhou Univ.  
Baoding Wu  
Zhengzhou Univ.  
Yong-ai Tao  
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Lei Shi  
Zhengzhou Univ.

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Jianchao Shi  
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Shunzheng Zhu  
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Tingna Wang  
Xiamen Univ.  
Guofang Shao  
Xiamen Univ.

**Artificial Intelligence**

Chair: Dr. Shashi Phoha  
Pennsylvania State Univ.
Co-Chair: Dr. G ANJAN BABU  
S V Univ.

15:40 - 15:55   SaB1.1  
W.A.C.Weenkoon  
Univ. of Moratuwa  
A.S.Karunananda  
Univ. of Moratuwa

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Shimin WANG  
Jiangxi Normal Univ.  
Jhuan YE  
Jiangxi Normal Univ.  
Dequan YING  
Province Health Department

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DING Xiaoming  
Southwest Univ.  
TANG Yan  
Southwest Univ.

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ZHANG Lisheng  
Chongqing Univ. of Posts & Telecommunications  
TANG Yan  
Southwest Univ.

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D.N. Kogashewa  
Sri Lanka Inst. of Info Tech.  
J. L Amararachchi  
Sri Lanka Inst. of Info Tech.  
S.U.P. Liptiya  
Sri Lanka Inst. of Info Tech.  
D.T.K. Geegange  
Sri Lanka Inst. of Info Tech.

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D.N. Kogashewa  
Sri Lanka Inst. of Info Tech.  
J. L Amararachchi  
Sri Lanka Inst. of Info Tech.  
S.U.P. Liptiya  
Sri Lanka Inst. of Info Tech.  
D.T.K. Geegange  
Sri Lanka Inst. of Info Tech.

17:10 - 17:25   SaB1.7  
G Anjan Babu  
S V Univ.  
Sreenu Naik Bhukya  
NIT  
R Sendhil Kumar  
Thirumalai Engineering College

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Shashi Phoha  
Pennsylvania State Univ.  
Asok Ray  
Pennsylvania State Univ.
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Isuru UJayasooriya  Sri Lanka Inst. of Info. Tech.
Thanuje A.Nalaperuma  Sri Lanka Inst. of Info. Tech.
Umesh K Herath  Sri Lanka Inst. of Info. Tech.
Sachini R Ranasinghe;  Sri Lanka Inst. of Info. Tech.
Mohan Liyanage  Sri Lanka Inst. of Info. Tech.


ZHANG Jiem in  Jimei Univ.
Li Yongmei  Jimei Univ.

17:10 - 17:25  SaB2.7  Designing Acknowledgement Based MANET Using Public Key Cryptography, pp. 228-233.

Moresh Kashikar  G.H.Raisoni College of Engineering
Sonali Nimborkar  G.H.Raisoni College of Engineering


Manish Tembhurkar  G.H.Raisoni College of Engineering
Lateish Malik  G.H.Raisoni College of Engineering
Nekita Chavhan  G.H.Raisoni College of Engineering

### SaB3  Robotics & Control

Chair: Prof. Luo Delin  Xiamen Univ.
Co-Chair: Dr. Weng Yang  Sichuan Univ.


Zhang Zhao  Changchun Inst. of Tech.
Cai Changqing  Changchun Inst. of Tech.
Liu Wenzhou  Changchun Inst. of Tech.

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Ci Yanke  Ningbo Dahongying Univ.
Ye Xinzhou  Xiamen Linktron Microelectronics Co., Ltd

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Gang Wang  Jimei Univ.

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Chang-qing Cai  Changchun Inst. of Tech.
Liu Wenzhou  Changchun Inst. of Tech.

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Simi Surendran  AMRITA Univ.
Sreeram Rasamany  AMRITA Univ.
Rajesh Kannan Megalingam  AMRITA Univ.

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Delin Luo  Xiamen Univ.
Wenlong Xu  Xiamen Univ.
Shuxiang Wu  Xiamen Univ.
Youping Ma  China Helicopter Research & Development Inst.

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Syed Faiz Ahmed  Unik. Malaysia Perlis
Hazry Desa  Unik. Malaysia Perlis
Fahad Azim  Hamdard Univ.
Ammar Surti  Hamdard Univ.
Waqas Hussain  Ozyegin Univ.


Yang Weng  Sichuan Univ.
Yonghong Zhao  Sichuan Univ.
Guangbo Tang  Central Iron and Steel Research Inst.
Zhengdong Liu  Central Iron and Steel Research Inst.

### SuA1  Artificial Intelligence

Chair: Prof. Ching-Shoei Chiang  Soochow Univ.
Co-Chair: Mr. Rasika Herath  The Open Univ. of Sri Lanka

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Shao Xiongkai  Hubei Univ. of Tech.
P Li Jing  Hubei Univ. of Tech.
Liu Jianzhou  Hubei Univ. of Tech.


Inoshika Dhiruki  Univ. of Colombo School of Computing
Kasun De Zoysa  Univ. of Colombo School of Computing
Amitha Geldra  Univ. of Colombo School of Computing


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H.M.R.PB Herath  The Open Univ. of Sri Lanka
H.U.W.Ratnayake  The Open Univ. of Sri Lanka

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Luis Anido Rifo  Univ. of Vigo
Victor M. Alnso Roris  Univ. of Vigo
Agustin Canas Rodriguez  Univ. of Vigo
Juan M. Santos Gago  Univ. of Vigo
Manuel J. Parraez Iglesias  Univ. of Vigo


Ching-shoei Chiang  Soochow Univ.
Yi-Zong Chan  Soochow Univ.

### SuA2  Cloud Computing

Chair: Prof. Wang Chunzhi  Hubei Univ. of Tech.
Co-Chair: Dr. Shakti Mishra  Inst for Development & Research in Banking Tech.

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SU NYu Yun Nan Normal Univ.
LI Zhiang Yun Nan Normal Univ.
XII Ji Yun Nan Normal Univ.

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CJ.Wickramarathne Sri Lanka Inst. of Info. Tech.

9:30 - 9:45 SuA2.3
Chunzhi Wang Hubei Univ. of Tech.
Zhuang Yang Hubei Univ. of Tech.
Hongwei Chen Hubei Univ. of Tech.

9:45 - 10:00 SuA2.4
VSashi Kanth Nagireddi Inst. for Development & Research in Banking Tech.
Shakti Mishra Inst. for Development & Research in Banking Tech.

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Yue Jiang Huazhong Univ. of Sci. & Tech.
Hai Jin Huazhong Univ. of Sci. & Tech.
Xiaofei Liao Huazhong Univ. of Sci. & Tech.

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Maxim Schnjakin Potsdam Univ.
Dimitri Korsch Potsdam Univ.
Martin Schoenberg Potsdam Univ.
Christoph Meinel Potsdam Univ.

SuA3 Web Application

Chair: Assoc. Prof. Dr. Sartid Vongpradhip Chulalongkorn Univ.
Co-Chair: Mr. Sudantha Asia Pacific Inst. of Info. Techn.
Sudantha Gunawardena

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Nachiket Ashputre TIBCO Software India Pvt. Ltd.
Santosh Bhutkar TIBCO Software India Pvt. Ltd.
Prithviraj Patil TIBCO Software India Pvt. Ltd.
Harshad Sahte Persistent Systems Limited

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Sartid Vongpradhip Chulalongkorn Univ.

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Arunasalam Sambhanthan Sri Lanka Inst. of Info. Tech.
Samantha Theljijagoda Sri Lanka Inst. of Info. Tech.
Joseph Tan McMaster Univ.

9:45 - 10:00 SuA3.4
Luis E. Anido Riton Universidad de Vigo
Agustin Canas Rodriguez Universidad de Vigo
Víctor M. Alonso Rosis Universidad de Vigo
Juan M. Santos Gago Universidad de Vigo
Manuel J. Fernandez Iglesias Universidad de Vigo

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C.Wickramasinghe Sri Lanka Inst. of Info. Tech.
P.M.AB Samarakaon Sri Lanka Inst. of Info. Tech.

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Sudantha Gunawardena Asia Pacific Inst. of Info. Tech. Sri Lanka
Dhananjay Kulkarni Asia Pacific Inst. of Info. Tech. Sri Lanka
Balachandran Gnanasekarian Asia Pacific Inst. of Info. Tech. Sri Lanka

Sub1 Computer Graphics

Chair: Prof. Tian Si Ningbo Dahongying Univ.
Co-Chair: Dr. Guifang Shao Xiamen Univ.

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Zhigang Chen Xiamen Univ.

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A.A.Niroshika Sri Lanka Inst. of Info. Tech.
R.G.N.Meegama Univ. of Sri Jayewardenepeura
T.G.L.Fernando Univ. of Sri Jayewardenepeura

11:15 - 11:30 Sub1.3
Warunika Ranaweera Univ. of Colombo School of Computing
Shazan Jabbar Univ. of Colombo School of Computing
Ruwun Wickramarachchi Univ. of Colombo School of Computing
Maleshyya Weerasinghe Univ. of Colombo School of Computing
Naduni Gunathilake Univ. of Colombo School of Computing
Gamath Keppthiyagama Univ. of Colombo School of Computing

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Jie Jin Tianjin Univ.
Lili Shen Tianjin Univ.
Kefeng Fan China Electronics Standardization Inst.
Subing Zhang China Electronics Standardization Inst.
Yinghua Huang China Electronics Standardization Inst.

11:45 - 12:00 Sub1.5
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<td>Luis Aníbal (Universidade de Vigo)</td>
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<td>Manuel J. Fernandez-Iglesias (Universidade de Vigo)</td>
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<td>K.L.V. Dilhari (Univ. of Colombo School of Computing)</td>
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<td>K.W.T.G.P. Priyanawaka (Sri Lanka Inst. of Info. Tech.)</td>
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