

Collaboratecom 2017 Program: Full Program

Day 1: Monday 11 December 2017 Venue: Craiglockhart Campus	
8:30 – 9:00	REGISTRATION
8:30 – 9:00	OPENING AND THE KEYNOTE SPEECH
11.00 -11.15	COFFEE BREAK (WILFRED ROOM)
11:15 – 12:30	Session A1 : Siegfried Room General Track
11:15 – 11:30	A Comparative Analysis of Content Delivery Capability for Collaborative Dual-Architecture Network <i>Liu, Xuan; Yang, Peng; Dong, Yongqiang; Ahmed, Syed</i>
11:30 – 11:45	Management Node Selection based on Cloud Model in a Distributed Network <i>Tang, HanYi; Sun, Qibo; Li, Jinglin</i>
11:45 – 12:00	CNTE: A Node Centrality-based Network Trust Evaluation Method <i>Yuan, Xiang; Sun, qibo; Li, Jinglin</i>
12:00 – 12:15	Minimum Cost Load Migration in Distributed Software Defined Networks <i>Qin, Kuangyu ; Huang, Chuanhe; Ganesan, N; Liu, Kewei</i>
12:15 – 12:30	Hybrid-Aware Collaborative Multipath Communications for Heterogeneous Vehicular Networks <i>Liu, Yana; Quan, Wei; Zeng, Jinjie; Liu, Gang ; Zhang, Hongke</i>
12:30 – 13:30	LUNCH
13:30 – 15:15	Session A2 : Siegfried Room General Track
13:30 – 13:45	A Human-Machine Collaborative Detection Model for Identifying Web Attacks <i>Hu, Yong; Ye, Weijing; Yuan, Guiqin</i>
13:45 – 14:00	Route-Oriented Participants Recruitment in Collaborative Crowdsensing <i>Yang, Shu; Li, Jinglin; Yuan, Quan; Liu, Zhihan</i>

14:00 – 14:15	A Reinforcement Learning Based Workflow Application Scheduling Approach in Dynamic Cloud Environment <i>Wei, Yi; Kudenko, Daniel; Liu, Shijun; Pan, Li; Wu, Lei; Meng, Xiangxu</i>
14:15 – 14:30	p-Faster R-CNN algorithm for food detection <i>Wan, Yanchen; Liu, Yu; Li, Yuan; Zhang, Puhong</i>
14:30 – 14:45	PUED: A Social Spammer Detection Method Based on PU Learning and Ensemble Learning <i>Song, Yuqi; Gao, Min; Yu, Junliang; Li, Wentao; Yu, Lulan; Xiao, Xinyu</i>
14:45 – 15:00	Position vs. Attitude: How Topological Factors Influence Our Difference in the Attitudes on Online Interrelationships? A Case Study with Language Use <i>Wang, Bo; Sun, Yingjun; Hou, Yuexian; Song, Dawei; He, Ruifang</i>
15:00 – 15:15	LWTP: An Improved Automatic Image Annotation Method Based on Image Segmentation <i>Jianwei, Niu; Shijie, Li; Shasha, Mo; Jun, Ma</i>
15:15 – 15:40	COFFEE BREAK (WILFRED ROOM)
15:40 – 17:30	Session A3 : Siegfried Room General Track
15:40 – 15:55	AXE: Objects Search in Mobile Volunteered Service <i>Wu, Yao; Wu, Yuncheng; Liang, Wenjuan; Chen, Hong ; Li, Cuiping</i>
15:55 – 16:10	Modeling the Impacts of WiFi Signals on Energy Consumption of Smartphones <i>Sun, Yuxia; Chen, Junxian; Tang, Yong</i>
16:10 – 16:25	On Cost Efficient Dataflow Computing Program Deployment in SDN Managed Distributed Computing Environment <i>Zhang, Yating; Li, Yuepeng; Zheng, Long; Zeng, Deze</i>
16:25 – 16:40	Constrained Route Planning Based on the Regular Expression <i>Wang, Jing; Liu, Huiping; Zhang, Zhao</i>
16:40 – 16:55	A Short Review of Constructing Noise Map using Crowdsensing Technology <i>Zhang, Xuhui; Shu, Lei; Huo, Zhiqiang; Mukherjee, Mithun; Zhang, Yu</i>
16:55 – 17:10	Research of Positioning Tracking on Dynamic Target Based on the integral complementing algorithm <i>Lu, Guiping; Xu, Jianrong; Lin, Jingsheng; Huang, Jianfeng</i>

17:10 – 17: 25	Sentiment Analysis of Chinese Words Using Word Embedding and Sentiment Morpheme Matching <i>Jianwei, Niu; Mingsheng, Sun; Shasha, Mo</i>
Day 2: Tuesday 12 December 2017 Venue: Craiglockhart Campus	
9:00 – 10:45	Session A4 : Siegfried Room Track 2: Collaborative Data and Workflow Management
9.00 – 9:15	Using the MapReduce Approach for the Spatio-Temporal Data Analytics in Road Traffic Crowdsensing Application <i>Armoogum, Sandhya; Munchetty-Chendriah, Shevam</i>
9:15 – 9:30	An Efficient Critical Incident Propagation Model for Social Networks Based on Trust Factor <i>Li, XiaoMing; Yuan, Limengzi; Liu, ChaoChao; Yu, Wei; Chen, Xue; Xu, Guanquan</i>
9 :30 – 9:45	Impact of the important users on social recommendation system <i>Zhao, Zehua; Gao, Min; Yu, Junliang; Song, Yuqi; Wang, Xinyi; Zhang, Min</i>
9:45 – 10:00	Analysis on Communication Cost and Team Performance in Team Formation Problem <i>Chen, Weijun; Yang, Jing; Yu, Yang</i>
10:00 – 10:15	Ranking the Influence of Micro-blog Users Based on Activation Forwarding Relationship <i>Yang, Yiwei; Yao, Wenbin; Wang, Dongbin</i>
10:15 – 10:30	UR Rank: Micro-blog user influence ranking algorithm based on user relationship <i>Yao, Wenbin; Yang, Yiwei; Wang, Dongbin</i>
10.30 – 10:45	An Efficient Black-Box Vulnerability Scanning Method for Web Application <i>JIN, Haoxia; XU, Ming; YANG, Xue; WU, Ting; ZHENG, Ning; YANG, Tao</i>
10:45 – 11:00	COFFEE BREAK (WILFRED ROOM)
11:00 – 12:20	SESSION A5 : Siegfried Room Track 2: Collaborative Data and Workflow Management
11:00 – 11:15	A 3D Registration Method Based on Indoor Positioning Through Networking <i>Li, Haibo; Xu, Huahu; Gao, Honghao; Bian, Minjie</i>
11:15 – 11:30	A Load Balancing Method Based on Node Features in a Heterogeneous Hadoop Cluster <i>Yang, Pengcheng; Gao, Honghao; Xu, Huahu; Bian, Minjie; Chu, Danqi</i>

11:30 – 11:45	Towards Collaborative Typed Resources Manipulation in Health-care Environments <i>Duan, Yucong; Zhou, Zhangbing; Zhu, Donghai; Longo, Antonella; Gao, Honghao</i>
11:45 – 12:00	Constructing Search as a Service towards Non-deterministic and Not Validated Resource Environment with a Positive-Negative Strategy <i>Duan, Yucong; Shao, Lixu; Song, Zhengyang; Sun, Xiaobing; Cui, Lizhen; Zhu, Donghai</i>
12:00 – 12:15	Learning Planning and Recommendation based on an Adaptive Architecture on Data Graph, Information Graph and Knowledge Graph <i>Shao, Lixu; Duan, Yucong; Zhou, Zhangbing; Gao, Honghao; Zou, Quan</i>
12:15-12:30	A Passenger Flow Analysis Method through Ride Behaviors on Massive Smart Card Data <i>Ding, Weilong; Zhao, Zhuofeng; Li, Han; Cao, Yaqi; Xu, Yang</i>
12:30 – 13:30	LUNCH
13:30 – 15:00	SESSION A6 : Siegfried Room Special Session: Collaboration Techniques in Data-intensive Cloud Computing
13:30 – 13:45	HSASore: A Hierarchical Storage Architecture for Computing Systems Containing Large-scale Intermediate Data <i>Zhang, Zhoujie; Xiao, Limin; Su, Shubin; Wei, Bing; Zhou, Nan; Liu, Xi; Wang, Haitao; Wei, Zipeng</i>
13:45 – 14:00	Early Notification and Dynamic Routing: An Improved SDN-based Optimization Mechanism for VM Migration <i>Qin, Xuanlong; Li, Dagang; Chen, Ching-Hsuan; Huang, Nen-Fu</i>
14:00 – 14:15	Cloud Data Assured Deletion Based on Information Hiding and Secondary Encryption with Chaos Sequence <i>Chen, Yijie; Yao, Wenbin</i>
14:15 – 14:30	Performance Analysis of Storm in a Real-World Big Data Stream Computing Environment <i>Yan, Hongbin; Sun, Dawei; Gao, Shang; Zhou, Zhangbing</i>
14:30 – 14: 45	A Two-level Classifier Model for Sentiment Analysis <i>Hao, Haidong; Ruan, Li; Xiao, Limin; Su, Shubin; Yuan, Feng; Wang, Haitao; Liu, Jianbin</i>
14:45 – 15:00	Exploiting User Activities for Answer Ranking in Q&A Forums <i>Zhao, Chenyang; Huang, Hai; Xu, Liutong</i>
15:00 – 15:30	COFFEE BREAK (WILFRED ROOM)
15:30 – 17:30	SESSION A7 : Siegfried Room

	Special Session: Collaboration Techniques in Data-intensive Cloud Computing
15:30 – 15:45	An Effective Method for Self-driving Car Navigation based on Lidar <i>Liu, Meng; Liu, Yu; Niu, Jianwei; Du, Yu; Wan, Yanchen</i>
15:45 – 16:00	Minimize Residual Energy of the 3-D Underwater Sensor Networks with Non-uniform Node Distribution to Prolong the Network Lifetime <i>Shi, Gaotao; Zeng, Jia; Liu, Chunfeng; Li, Keqiu</i>
16:00 – 16:15	Combinational Meta-Paths Mining for Correlation Relationship Evaluation in Bibliographic Networks <i>Wu, Qinchen; Wu, Peng; Pan, Li</i>
16:15 – 16:30	Detecting Spammer Communities Using Network Structural Features <i>Zhou, Wen; Liu, Meng; Zhang, Yajun</i>
16:30 – 16:45	Citation Based Collaborative Summarization of Scientific Publications by a New Sentence Similarity Measure <i>Yuan, Chengzhe; Li, Dingding; Zhu, Jia; Tang, Yong; Wasti, Shahbaz; He, Chaobo; Liu, Hai; Lin, Ronghua</i>
16:45 – 17:00	Shortest Path Discovery in Consideration of Obstacle in Mobile Social Network Environments <i>Sun, Dawei; Qu, Wentian; Gao, Shang; Liu, Li</i>
18.00 – 20.00	Dinner (Chapel, Craiglockhart Campus)
Day 3 : Wednesday 13 December 2017 Venue: Merchiston Campus	
9:00 – 10:40	SESSION A8: Room H5 Track 1: Internet of Things (IoT) and collaboration
9.00 – 9:15	Easing Traffic Congestion: An Improved Clustering Method For Sharing Bike Station Deployment <i>Kang, Jian; Zhao, Chengfang</i>
9:15 – 9:30	Sensor Data Classification for the Indication of Lameness in Sheep <i>Al-Rubaye, Zainab; Al-Sherbaz, Ali; McCormick, Wanda; Turner, Scott</i>
9 :30 – 9:45	A Point of Interest Recommendation Approach by Fusing Geographical and Reputation Influence on Location Based Social Networks <i>Li, Feng; Zeng, Jun; Wen, Junhao; Zhou, Wei</i>
9:45 – 10:00	An Electricity Power Collection Data Oriented Missing Data Imputation Solution <i>Chen, Jiangqi; Li, Han; Zhao, Ting; Liu, He</i>

10:00 – 10:15	RETail: A Machine Learning-Based Item-Level Localization System in Retail Environment <i>Xu, Xiaoyi; Chen, Xiaoming; Ji, Jiang; Chen, Feng; Sanjay, Addicam.V</i>
10:15 – 10:30	Curve-registration-based Feature Extraction for Predictive Maintenance of Industrial Equipment <i>Zhang, Shouli; Li, Xiaohong; Wang, Jianwu; Su, Shen</i>
10:30 – 10:45	Predicting Next Points Of Interests Based On a Markov Model <i>Xu, Jie; Xing, Chunxiao; Zhang, Yong</i>
10:45 – 11:00	COFFEE BREAK (WILFRED ROOM)
11:00 – 12:20	SESSION A9: Room H5 Track 1: Internet of Things (IoT) and collaboration + Track 3: Collaboration with artificial intelligence
11:00 – 11:15	A Topology-aware Reliable Broadcast Scheme for Multidimensional VANET Scenarios <i>Liu, Fengrui; Huang, Chuanhe; Fan, Xiyang</i>
11:15 – 11:30	MAC-ILoc: Multiple Antennas Cooperation Based Indoor Localization using Cylindrical Antenna Arrays <i>Jie, Wu; Minghua, Zhu; Bo, Xiao</i> Track 3: Collaboration with artificial intelligence
11:30 – 11:45	Integrating User Embedding and Collaborative Filtering for Social recommendations <i>Yu, Junliang; Gao, Min; Song, Yuqi; Fang, Qianqi; Rong, Wenge; Xiong, Qingyu</i>
11:45 – 12:00	Collaborative Shilling Detection Bridging Factorization and User Embedding <i>Dou, Tong; Yu, Junliang; Xiong, Qingyu; Gao, Min; Song, Yuqi; Fang, Qianqi</i>
12:00 – 12:15	CORB-SLAM: a Collaborative Visual SLAM System for Multiple Robots <i>Li, Fu; Yang, Shaowu; Yi, Xiaodong; Yang, Xuejun</i>
12:20 – 13:30	LUNCH: Merchiston Restaurant
13:30 – 15:00	SESSION A10 : Room H5 Track 4: Security and Trustworthy
13:30 – 13:45	High Performance Regular Expression Matching on FPGA <i>Yang, Jiajia; Jiang, Lei; Bai, Xu; Dai, Qiong</i>

13:45 – 14:00	<p>ProNet: Toward Payload-driven Protocol Fingerprinting via Convolutions and Embeddings <i>Sang, Yafei; Zhang, Yongzheng; Peng, Chengwei</i></p>
14:00 – 14:15	<p>Formal Verification of Authorization Policies for Enterprise Social Networks using PlusCal-2 <i>Akhtar, Sabina; Zahoor, Ehtesham; Perrin, Olivier</i></p>
14:15 – 14:30	<p>Adaptive Carving Method for Live FLV Streaming <i>Ge, Haidong; Zheng, Ning; Cai, Lin; XU, Ming; Qiao, Tong; Yang, Tao; Sun, Jinkai; Hu, Sudeng</i></p>
14:30 – 14: 45	<p>Android app classification and permission usage risk assessment <i>Shen, Yidong; Xu, Ming; Zheng, Ning; Xu, Jian; Xia, Wenjing ; Wu, Yiming; Qiao, Tong; Yang, Tao</i></p>
14:45 – 15:00	<p>A Privacy Settings Prediction Model for Textual Posts on Social Networks Chen, Lijun; Xu, Ming; Yang, Xue; Zheng, Ning; Wu, Yiming; Xu, Jian; Qiao, Tong; Liu, Hongbin</p>
15:00 – 15:15	<p>An Efficient Identity-Based Privacy-Preserving Authentication Scheme for VANETs <i>Cui, Jie; Xu, Wenyu; Sha, Kewei; Zhong, Hong</i></p>
15:15 – 15:30	<p>An Efficient and Privacy Preserving CP-ABE Scheme for Internet-based Collaboration <i>Wang, Jinmiao; Lang, Bo</i></p>
15:30 – 16:00	COFFEE BREAK (WILFRED ROOM)
16:00 – 16:30	Closing Session