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Monday, February 20

Monday, February 20 8:20 - 8:30

Opening Remarks

Room: Pi'inaio Ballroom 1

Chairs: Cheng Li, Hussein T. Mouftah

Monday, February 20 8:30 - 9:30

Keynote I: Federated Learning in V2X Networks

Prof. Vincent Poor, Princeton University, USA

Room: Pi'inaio Ballroom 1

Chair: Cheng Li

Monday, February 20 9:30 - 10:00

Coffee Break

Monday, February 20 10:00 - 12:00

Invited Talks I

Machine Learning in NextG Networks via Generative Adversarial Networks..........N/A

Ender Ayanoglu

Federated Learning With Efficiency and Privacy Considerations in Wireless Networks..........N/A

Rose Qingyan Hu

Distributed Software Applications Based on Mobile Cloud and Software-Defined Networks..........N/A

Sergei Gorlatch

Room: Pi'inaio Ballroom 1

Chair: Rose Qingyang Hu

AI and Machine Learning for Communications and Networking

AMCN I

Room: Palolo 1

Chair: Wencong Su

Deep Reinforcement Learning Based Resource Allocation for 5G V2V Groupcast

Communications and Information Security

CIS I

Room: Palolo 2

Chair: Olusola Tolulope Odeyomi

Membership Management in Collaborative Intrusion Detection Systems

Chukwuebuka Ezelu and Ulrich Buehler

Wiggle: Physical Challenge-Response Verification of Vehicle Platooning

Connor Dickey, Christopher Smith, Quentin Johnson, Jingcheng Li, Ziqi Xu, Loukas Lazos and Ming Li

Network Anomaly Detection using a Graph Neural Network

Patrice Kisanga, Isaac Woungang, Issa Traore and Glaucio Carvalho

Byzantine-Resilient Federated Learning With Differential Privacy Using Online Mirror Descent

Olusola Tolulope Odeyomi and Gergely Zaruba

Edge Computing, Cloud Computing, and Big Data

ECB I

Room: Palolo 3

Chair: Yuanzhu Chen

Adaptive Resource Allocation in Quantum Key Distribution (QKD) for Federated Learning

Rakpong Kaewpuang, Minrui Xu, Dusit Niyato, Han Yu, Zehui Xiong and Sherman Shen

Study on High Availability and Fault Tolerance

Norman Kong Koon Kit and Michal Aibin

Real-Time Search and Rescue using Remotely Piloted Aircraft System with Frame Dropping

Rohan Sharma and Michal Aibin

Emergency Surgical Scheduling Model Based on Moth-flame Optimization Algorithm

Cuiting Huang, Sicong Ye, Shi Shuai, Mengdi Wei, Yehong Zhou, Ania Aibin and Michal Aibin

pp. 89-94

Trust and Rewards in a Two-Tier Consensus Architecture

Haytham Qushtom, Jelena Mišić, Vojislav B. Mišić and Xiaolin Chang
pp. 95-100

Analysis of Job Completion Time in Vehicular Cloud Under Concurrent Task Execution

Chinh Tran and Mustafa Mehmet-Ali
pp. 101-105

Next Generation Networks and Internet Applications

NGNI I

Room: Palolo 4

Chair: Tilman Wolf

LEO Satellite Communication in IoRT: a Virtual MISO Model

Xian Liu
pp. 106-110

Towards Programmable Networking With CoopNet: A Horizontal Parallel Multipath Approach

Razvan Cristian Voicu and Yusun Chang
pp. 111-116

Implementing Virtual Network Functions in Named Data Networking and Web 3.0

Puming Fang and Tilman Wolf
pp. 117-123

Performance Analysis of Fixed Broadband Wireless Access in mmWave Band in 5G

Soumya Banerjee, Sarada Prasad Gochhayat and Sachin Shetty
pp. 124-129

Network Services Management using Programmable Data Planes for Visual Cloud Computing

Alicia Esquivel Morel, Prasad Calyam, Chengyi Qu, Durbek Gafurov, Cong Wang, Komal Thareja, Anirban Mandal, Eric Lyons, Michael Zink, George Papadimitriou and Ewa Deelman
pp. 130-136

Augmenting Campus Wireless Architectures with SDN

William Brockelsby and Rudra Dutta

Monday, February 20 12:00 - 13:30

Lunch (self-pay)

Monday, February 20 13:30 - 15:30

Plenary Talks I

A concept of user-centric ultra-dense distributed MIMO towards realizing Beyond 5G systems

Prof. Fumiyuki Adachi, Tohoku University, Japan;

OT Cybersecurity Verification and Validation

Prof. Hamid Sharif, University of Nebraska-Lincoln, USA.

Room: Pi'inaio Ballroom 1

Chairs: Hossam S. Hassanein, Hossam S. Hassanein

Monday, February 20 15:30 - 16:00

Coffee Break

Monday, February 20 16:00 - 18:00

Invited Talks II

Wicked bizarre semiconductor physics of sensor security..........N/A
Kevin Fu

Unified View of IoT and CPS Security and Privacy..........N/A
Xinwen Fu

Deep autoencoders for analysis of single-cell RNA sequencing data..........N/A
Zhi Wei

Room: Pi'inaio Ballroom 1

Chair: Xinwen Fu

AI and Machine Learning for Communications and Networking

AMCN II

Room: Palolo 1

Chairs: Hovannes K. Kulhandjian, Hao Xu

AI-based RF-Fingerprinting Framework and Implementation using Software-Defined Radios

Hovannes K. Kulhandjian, Elizabeth Batz, Eduardo Garcia, Selena Vega, Sanjana Velma, Michel Kulhandjian, Claude D'Amours, Burak Kantarci and Tathagata Mukherjee

pp. 143-147

Reinforcement Learning based Optimal Dynamic Resource Allocation for RIS-aided MIMO Wireless Network with Hardware Limitations

Yuzhu Zhang, Lijun Qian, Abdullah Eroglu, Binbin Yang and Hao Xu

pp. 148-152

The Hysteresis Effect of Momentum Spillover in Asset Pricing via Spatial-Temporal Graph Learning

Chenhao He, Qing Li, Rui Cheng, Jun Wang and Jinghua Tan

pp. 153-158

Dynamic Spectrum Access in Non-stationary Environments: A DRL-LSTM Integrated Approach

Mingjie Feng, Wenhan Zhang and Marwan Krunz

pp. 159-164

Pedestrian Detection and Avoidance at Night Using Multiple Sensors and Machine Learning

Hovannes K. Kulhandjian, Jeremiah Barron, Megan Tamiyasu, Mateo Thompson and Michel Kulhandjian

pp. 165-169

Blockchain-based Data Quality Assessment to Improve Distributed Machine Learning

Yao Du, Zehua Wang, Cyril Leung and Victor C.M. Leung

pp. 170-175

Communications and Information Security

CIS II

Room: Palolo 2

Chair: Yantian Hou

A Hybrid Delay-aware Approach towards UAV Flight Data Anomaly Detection

Mengjie Jia, Ashok Vardhan Raja and Jiawei Yuan

pp. 176-180

Adversarial Technique Validation & Defense Selection Using Attack Graph & ATT&CK Matrix

Md Ariful Haque, Sachin Shetty, Charles A Kamhoua and Kimberly Gold

pp. 181-187

Virtual Curtain: A Communicative Fine-grained Privacy Control Framework for Augmented Reality

Aakash Shrestha, Yantian Hou, Min Long and Jiawei Yuan

pp. 188-194

Using Blockchain for Decentralized Artificial Intelligence with Data Privacy

Anand Surendra Masurkar, Xiaoyan Sun and Jun Dai

pp. 195-201

Evaluating Generative Adversarial Networks: A Topological Approach

Narges Alipourjeddi and Ali Miri

pp. 202-206

Consensus algorithms for Opt-in/Opt-out and proximity marketing context

Fatima Chahal, Hacene Fouchal and Dominique Gaïti

pp. 207-213

Edge Computing, Cloud Computing, and Big Data

ECB II

Room: Palolo 3

Chair: Vincent Latzko

Wrapper-Based Federated Feature Selection for IoT Environments

Afsaneh Mahanipour and Hana Khamfroush

pp. 214-219

Deep learning inference time guarantee in near future edge computing

Kouichi Genda

pp. 220-225

Effectiveness and predictability of in-network storage cache for Scientific Workflows

Caitlin Sim, Kesheng Wu, Alex Sim, Inder Monga, Chin Guok, Frank Wurthwein, Diego Davila, Harvey Newman and Justas Balcas

pp. 226-230

Energy-Aware and Fair Multi-User Multi-Task Computation Offloading

Vincent Latzko, Osel Lhamo, Mahshid Mehrabi, Christian Leonard Vielhaus and Frank H.P. Fitzek

pp. 231-236

An edge computing-based monitoring framework for situation-aware embedded real-time systems

Nayreet Islam and Akramul Azim

pp. 237-241

Next Generation Networks and Internet Applications

NGNI II

Room: Palolo 4

Chair: Qiang Ye

Warehouse Deployment: A Comparative Measurement Study of Commercial Wi-Fi and CBRS Systems

Vanlin Sathya, Lyutianyang Zhang, Mohit Goyal and Mehmet Yavuz

pp. 242-248

SPA: A Scalable Pedestrian-awareness Application using NDN over CV2X

Proyash Podder, Azin Neishaboori, Somak Datta Gupta and Alexander Afanasyev

pp. 249-253

Hyperbolic Routing for Cache Privacy in Information Centric Networking

Sean Cannan, Andrew Jones and Robert Simon

pp. 254-260

A Simple UDP-Based Web Server on a Bare PC with 64-bit Multicore Processors: Design and Implementation

Navid Ordouie, Ramesh Karne, Alexander L Wijesinha and Nirmala Soundararajan

pp. 261-265

Enable Computation in the Network for Driver Assistance with Object Notification and Augmentation

Lijun Dong and Richard Li

pp. 266-272

Metaverse-based education service adoption and preference study using conjoint analysis

Junghwan Lee

Monday, February 20 19:00 - 21:00

Reception (Pi'inaio Ballroom 2)

Room: Pi'inaio Ballroom 2

Tuesday, February 21

Tuesday, February 21 8:30 - 9:30

Keynote II: Stochastic Cumulative DNN Inference for Intelligent IoT Applications

Prof. Weihua Zhuang, University of Waterloo, Canada

Room: Pi'inaio Ballroom 1

Chair: Cheng Li

Tuesday, February 21 9:30 - 10:00

Coffee Break

Tuesday, February 21 10:00 - 12:00

Invited Talks III

Time-space synchronized digital twin for B5G managed network..........N/A

Naoaki Yamanaka

Wave-Controlled Reconfigurable Intelligent Surfaces..........N/A

Lee Swindlehurst

Blockchain-enabled Edge Intelligence for 6G IoT..........N/A

Victor Leung

Application-Oriented Scheduling for Optimizing Information Freshness in Wireless Networks..........N/A

Yu Cheng

Room: Pi'inaio Ballroom 1

Chair: Yu Cheng

AI and Machine Learning for Communications and Networking

AMCN III

Chair: Chin-Tser Huang

Evaluation of Different Time Series Forecasting Models for 5G V2V Networks

Jian Liu and Chin-Tser Huang

pp. 278-282

Activity Detection for Grant-Free NOMA in Massive IoT Networks

Mehrtash Mehrabi, Mostafa Mohammadkarimi and Masoud Ardakani

pp. 283-287

Implementation of Real-Time Adversarial Attacks on DNN-based Modulation Classifier

Eyad Shtaiwi, Ahmed Refaey, Awais Khawar, Ahmed Alkhateeb, Ahmed Abdelhadi and Zhu Han

pp. 288-292

A Machine Learning Approach for the Detection of Injection Attacks on ADS-B Messaging Systems

Joshua Price, Hadjar Ould Slimane, Khair Al Shamaileh, Vijay Devabhaktuni and Naima A Kaabouch

pp. 293-297

Hensel's Compression-Based Dimensionality Reduction Approach for Privacy Protection in Federated Learning

Ahmed El ouadrhiri, Ahmed Abdelhadi and Phu H. Phung

pp. 298-303

Communications and Information Security

CIS III

Room: Palolo 2

Chair: Felix Ferreira

Secrecy Performance and Power Allocation for Cooperative Vehicular Relaying Networks in the Presence of Interference

Mohamed G. Abd El Ghafour, Ahmed Hassan Abd El-Malek and Mohamed Abozahhad

pp. 304-310

On an Integrated Security Framework for Defense Against Various DDoS Attacks in SDN

Hao Wu, Aiqin Hou, Weike Nie and Chase Q. Wu

pp. 311-317

Flick me once and I know it's you! Flicking-based Implicit Authentication for Smartwatch

Yanyan Li, Felix Ferreira and Mengjun Xie

pp. 318-323

SGChain: Blockchain Platform for Availability Attack Mitigation in Smart Grid Environments

Roshan L Neupane, Pravin Bhandari, Prasad Calyam and Reshmi Mitra

pp. 324-330

A Zero-Trust Framework for Industrial Internet of Things

Adel Atieh, Priyadarsi Nanda and Manoranjan Mohanty

pp. 331-335

TPMWallet: Towards Blockchain Hardware Wallet using Trusted Platform Module in IoT

Wei-Yang Chiu, Weizhi Meng and Wenjuan Li

pp. 336-342

Mobile and Wireless Networking

MWN

Room: Palolo 3

Chair: Jing Deng

Estimation of Cellular Wireless User Coordinates via Channel Charting and MUSIC

Amr Aly and Ender Ayanoglu

pp. 343-347

Time-Topology Routing in 3D Networks

Tomohiro Korikawa, Chikako Takasaki, Kyota Hattori and Hidenari Oowada

pp. 348-352

Traffic Behavior-based Device Type Classification

Chikako Takasaki, Tomohiro Korikawa, Kyota Hattori and Hidenari Oowada

pp. 353-357

Enabling PeerCloud in Vehicular Networks: Feasibility and Reliability of Vehicle-to-Vehicle Offloading

Xiaomei Zhang

Transmission-Cost Minimization for Packet-level Coding on Multi-path Wireless Networks

Wei Mao, Shu-ping Yeh, Jing Zhu, Hosein Nikopour and Shilpa Talwar

perMAC: Perturbation-based MAC for Dense Wireless Networks with Periodic Traffic

Jing Deng, Po-Ning Chen and Yunghsiang Sam Han

Wireless Communications

WC

Room: Palolo 4

Chair: Hamid Sadjadpour

Is Active IRS Useful for mmWave Wireless Networks or Not?

Jalal Jalali, Ata Khalili, Atefeh Rezaei and Jeroen Famaey

Can We Have a Better System than OFDM?

Tongtong Li, Jian Ren and Jinxian Deng

ECEA Based Joint Circular Design of Reconfigurable Intelligent Surfaces with Drone During Disaster

Sabila Newaz and Xingya Liu

Ergodic Capacity of the Cloud Radio Access Network: A General Solution

Xian Liu

A novel information-directed tree-search algorithm for RIS phase optimization in massive MIMO

Fnu I. Zakir Ahmed, Hamid Sadjadpour and Shahram Yousefi

Tuesday, February 21 12:00 - 13:30

Lunch (self-pay)

Tuesday, February 21 13:30 - 15:30

Plenary Talks II

Learning for Resilient Virtualized Edge Computing

Prof. Falko Dressler, TU Berlin, Germany;

From Edge Video Analytics to Federated Learning

Prof. Ling Liu, Georgia Institute of Technology, USA.

Room: Pi'inaio Ballroom 1

Chair: Vojislav B. Mišić

Tuesday, February 21 15:30 - 16:00

Coffee Break

Tuesday, February 21 16:00 - 18:00

Invited Talks IV

Stealthy Adversarial Machine Learning Attacks on RF Signal Classifiers: Algorithms and Countermeasures..........N/A

Marwan Krunz

Anticipatory Radio Resource Management for 5G Networks and Beyond..........N/A

Hassam Hassanein

Generative Steganography via Live Commenting on Streaming Videos..........N/A

Jie Wang

Deep Learning based Radar Sensing: From Traditional to Lightweight..........N/A

Shaoen Wu

Room: Pi'inaio Ballroom 1

Chair: Shaoen Wu

AI and Machine Learning for Communications and Networking

AMCN IV

Room: Palolo 1

Chair: Matteo Anedda

Communications and Information Security

CIS IV

Room: Palolo 2

Chairs: Chin-Tser Huang, Junaid Ahmed Khan

On Line Secure Elements: Deploying High Security Keystores and Personal HSMs

Pascal Urien

pp. 450-455

AFFIRM: Privacy-by-Design Blockchain for Mobility Data in Web3 using Information Centric Fog Networks with Collaborative Learning

Junaid Ahmed Khan and Kaan Ozbay

pp. 456-462

Multimedia Computing and Communications

MCC

Room: Palolo 3

Chair: Panos Nasiopoulos

COVID-19 Fake News Detector

Junjie Liu and Min Chen

pp. 463-467

Shallow- and Deep-fake Image Manipulation Localization Using Deep Learning

Junbin Zhang, Hamid Reza Tohidypour, Yixiao Wang and Panos Nasiopoulos

pp. 468-472

A Deep Learning Based Tone Mapping Operator for 4K HDR Images Focusing on Color Accuracy and Artistic Intent

Junbin Zhang, Yixiao Wang, Hamid Reza Tohidypour, Mahsa T Pourazad and Panos Nasiopoulos

pp. 473-477

Guiding Interactive Film With Emotion-Profiling Chatbots

Celina L. Ma, Haohong Wang and Mea Wang

pp. 478-483

From Screenplay to Screen: A Natural Language Processing Approach to Animated Film Making

Kyle Jorgensen, Haohong Wang and Mea Wang

pp. 484-490

Tuesday, February 21 19:00 - 21:00

Banquet (Pi'inaio Ballroom 2)

Room: Pi'inaio Ballroom 2

Wednesday, February 22 8:30 - 9:30

Keynote III: Going Off the Deep End with Deep Learning

Prof. Richard G. Baraniuk, Rice University, USA.

Room: Pi'inaio Ballroom 1

Chair: Jian Ren

Wednesday, February 22 9:30 - 10:00

Coffee Break

Wednesday, February 22 10:00 - 12:00

Distinguished Lecture I: Adaptive Ensemble Q-learning: Minimizing Estimation Bias via Error Feedback.

Prof. Junshan Zhang, University of California, Davis, USA.

Room: Pi'inaio Ballroom 1

Chair: Jian Ren

Invited Talks V

DCWiz: Transforming Data Center Operations and Management with AI..........N/A

Yonggang Wen

Towards Automating Network Operation Centers with AI..........N/A

Shervin Shirmohammadi

An in-depth look at Deep Learning in Digital Media..........N/A

Panos Nasiopoulos

Adapting Practical Byzantine Fault Tolerance (PBFT) for use with Blockchain-enable IoT systems..........N/A

Jelena Misic

Room: Palolo 1

Chair: Jelena Mišić

Communications and Information Security

CIS V

Room: Palolo 2

Chair: Ranwa Al Mallah

Using Diversity to Evolve More Secure and Efficient Virtual Local Area Networks

Ariel J. Aizpurua, Errin Fulp and Daniel Canas

pp. 491-495

On the Placement of Edge Servers in Mobile Edge Computing

Haotian Liu, Shiyun Wang, Hui Huang and Qiang Ye

pp. 496-500

Malicious Model Detection for Federated Learning Empowered Energy Storage Systems

Xu Wang, Yuanzhu Chen and Octavia A. Dobre

pp. 501-505

Cloud Security Requirement Based Threat Analysis

Ahmed Taha, Alexander Lawall and Neeraj Suri

pp. 506-510

Blockchain-enabled Efficient and Secure Federated Learning in IoT and Edge Computing Networks

Ranwa Al Mallah, David López and Talal Halabi

pp. 511-515

Social Computing and Semantic Data Mining

SCDM

Chair: Samih Fadli

Early Rumor Detection in Social Media Based on Graph Convolutional Networks

Niteesh Reddy Thota, Xiaoyan Sun and Jun Dai

pp. 516-522

Evaluating Weather Influence on User Participation in a Crowd-sensing Application

Iran Ribeiro, Vitor F Calmon, Thiago H. Silva, Celso Alberto Saibel Santos and Vinícius Fernandes Mota

pp. 523-528

Verification of a method for latent interest estimation based on user behavior analysis and POI attributes

Takanobu Omura, Felix B. Dollack, Panote Siriaraya, Da Li, Katsumi Tanaka, Yukiko Kawai and Shinsuke Nakajima

pp. 529-535

Preliminary Analysis of Dietary Management Support Method for Improving the Symptoms in Irritable Bowel Syndrome

Takuya Yamanaka, Da Li and Shinsuke Nakajima

pp. 536-540

Prioritizing transaction delivery in Ethereum network

Soosan Naderi Mighan, Jelena Mišić and Vojislav B. Mišić

pp. 541-546

Wireless Ad hoc and Sensor Networks

WASN I

Room: Palolo 4

Chair: Danijela Cabric

Distributed UAV Swarm Placement Optimization for Compressive Sensing based Target Localization

Yen-Chin Wang and Danijela Cabric

pp. 547-551

Wake-up Control for Energy-efficient Identifications of Multiple Emission Sources in Wireless Sensor Networks

Junya Shiraishi and Hiroyuki Yomo

pp. 552-557

A Novel Multivariate and Accurate Detection Scheme for Electricity Theft Attacks in Smart Grids

Alaa Awad Abdellatif, Aya Amer, Khaled Bashir Shaban and Ahmed Massoud

pp. 558-562

Two-Stage Online Reinforcement Learning based Distributed Optimal Resource Allocation for Multiple RIS-assisted Mobile Ad-Hoc Network

Yuzhu Zhang and Hao Xu

pp. 563-567

Mobile Sensing Cluster with Orbiting Mutant for Indistinguishable Events in Noisy Environments

Naoki Fujiyama, Shoma Izuhara, Shoma Nishigami, Eiji Nii, Hiroyuki Yomo and Yasuhisa Takizawa

pp. 568-574

Wednesday, February 22 12:00 - 13:30

Lunch (self-pay)

Wednesday, February 22 13:30 - 15:30

Distinguished Lecture II: RFID-based 3D Human Pose Tracking: Design, Generalization, and Data Augmentation

Prof. Shiwen Mao, Auburn University, USA.

Room: Pi'inaio Ballroom 1

Chair: Cheng Li

Invited Talks VI

Room: Palolo 1

5G NR-Light at Millimeter Waves: Design Guidelines for Mid-Market IoT Use Cases..........N/A

Michele Zorzi

"Zero-Power" RFID-enabled Wireless/B5G Ultrabroadband Modules for IoT, SmartAg, Industry 4.0 and Smart Cities Applications: from dream to reality with Additive Manufacturing..........N/A

Manos M. Tentzeris

TBD..........N/A

Li-Chun Wang

What Color is Your Internet? And Can We Make it Green?..........N/A

Cedric Westphal

Room: Palolo 1

Chair: Cedric Westphal

Next Generation Networks and Internet Applications and Mobile and Wireless Networking

NGNI / MWN

Room: Palolo 2

Chair: Cedric Westphal

A Deep Q-Learning Connectivity-Aware Pheromone Mobility Model for Autonomous UAV Networks

Shreyas Devaraju, Alexander Ihler and Sunil Kumar

Network Algorithms and Performance Evaluation

NAPE I

Room: Palolo 3

Chairs: Yoichiro Arii, Yuanzhu Chen

Wireless Ad hoc and Sensor Networks

WASN II

Room: Palolo 4

Chair: Stefano Basagni

Wednesday, February 22 15:30 - 16:00

Coffee Break

Wednesday, February 22 16:00 - 18:00

Distinguished Lecture III: Machine Learning and Security for Vehicular Communication Networks

Prof. Yi Qian, University of Nebraska-Lincoln, USA.

Room: Pi'inaio Ballroom 1

Chair: Shiwen Mao

Invited Talks VII

Smart Markers in a Blockchain: How to Release the Shackle of Single Branch.......N/A

Chin-Tser Huang

Interconnectedness -- from classic theory of graphs to emerging science of networks..........N/A

Yuanzhu Chen

AI for Cybersecurity and Security of AI..........N/A

Houbing Song

Room: Palolo 1

Chair: Houbing H Song

Network Advances

Room: Palolo 2

Chair: Edoardo S. Biagioni

Decomposition Models for the Routing and Slot Provisioning Problem

Brigitte Jaumard, Adham Mohammed and Quang Anh Nguyen

pp. 659-665

Secure Anonymous Acknowledgments in a Delay-Tolerant Network

Edoardo S. Biagioni

pp. 666-671

Flying Ad Hoc Coverage Area Mobility Model for Post-Disaster Area based on Two Drones

Intan Nabina Azmi, Yusnani Mohd Yussoff, Norashikin M. Thamrin, Fadhlan Hafizhelmi Kamaru Zaman and Nooritawati Md Tahir

Network Algorithms and Performance Evaluation

NAPE II

Room: Palolo 3

Chair: Ramy Gohary