



A. Sjamsjiar Rachman, S.T., M.T

Cryptography, Protocol and System Engineering

Bachelor's degree (Electrical Engineering) Universitas Brawijaya, Malang 1998

Master's degree (Electrical Engineering) Universitas Gadjah Mada, Yogyakarta 2003

Employment

Lecturer Undergraduate's program in Electrical Engineering, Engineering Faculty University of Mataram, Indonesia March, 1999

Research and development projects over the last 5 years

1. "Classification of DDoS Attack Patterns using Deep Learning Convolutional Neural Network (DL-CNN)". Funded by Hibah PNBPN UNRAM.
2. "Probability Analysis of Port Scanning Attack on Data Network Traffics". Funded by Hibah PNBPN UNRAM.
3. "Development of Wireless Sensor Network Protocol based on power efficiency, delay effectivity, and fault tolerance". Funded by Hibah Pasca (Multi-Years - 3 years) DIKTI, Ministry of National Education.
4. "Experience Analysis of Image Compressing used Discrete Cosine Transform (DCT) standar Joint Photographic Expert Group". Funded by Hibah PNBPN UNRAM

Industry collaborations / Community Services over the last 5 years

1. "Workshop on the use of information systems as a tool for evaluating online and offline learning processes (2022)
2. "Internet of Things (iot) training for students of SMK I Praya Tengah, Praya District, Central Lombok (2021)
3. "Internet of Things (iot) training for students of SMK I Praya Tengah, Praya District, Central Lombok (2020)
4. "Electronic livestock weighing equipment for livestock communities in Ampenan District (2018)
5. "Workshop on the use of digital educational games for pre-school teachers in Kotamataram (2018)

Patents and proprietary rights

1. "Backward Arithmetic Coding for Distributed Compression in WSN with Multihop Communications", Patents registered in DJHKI, No.: P00200900069, <http://e-statushki.dgip.go.id/>

Important publications over the last 5 years

1. The First International Conference on Green Computing and The Second AUN/SEED-Net Regional Conference on ICT, "Energy-Efficient Protocol of Wireless Sensor Network using Carrier Signaling", Dept. of Electrical Engineering & Information

- Technology, Faculty of Engineering, Gadjah Mada University ; ASEAN Foundation ; JICA ; AUN/SEED-Net ; King Mongkut's Institute of Technology Ladkrabang, Thailand ; Jogjakarta.
2. Modeling Hidden Nodes Collisions in Wireless Sensor Networks: Analysis Approach", Jurnal Ilmiah Teknologi Informasi (JUTI) – FTIF ITS Surabaya.
 3. The 5th International Conference on Information & Communication Technology and Systems (ICTS), "Hidden Nodes of Wireless Sensor Networks: Analysis and Avoidance", ITS Surabaya, Kumamoto University - Japan, IEEE Computer Society - Indonesia Section, and JICA PREDICT-ITS, Surabaya.
 4. The 1st International Seminar on Science & Technology - ISSTEC 2009, "Measurement of MicaZ-based Wireless Sensor Network: Energy Modeling", UII Jogjakarta, UKM Malaysia, UMT Malaysia, Jogjakarta.
 5. The 14th Asia-Pacific Conference on Communications (APCC2008), "Design of Low Cost Wireless Sensor Networks-based Environmental Monitoring System for Developing Country", The Institute of Electronics, Information and Communication Engineers (IEICE), IEEE ComSoc Tokyo, Japan.
 6. The 4th International Conference on Information & Communication Technology and Systems (ICTS). "The Impact of Sensor Range on The Detection Probability in The Random Deployment of Wireless Sensor Network". ITS Surabaya, Kumamoto University (Japan), IEEE Computer Society - Indonesia Section, and JICA PREDICT-ITS, Surabaya.
 7. The 3rd International Conference on Information & Communication Technology and Systems (ICTS), "Puak Kata for Checking Grammar in Bahasa Indonesia", ITS Surabaya, Kumamoto University - Japan, IEEE Computer Society - Indonesia Section, and JICA PREDICT-ITS, Surabaya.

Activities in specialist
bodies over the last 5
years