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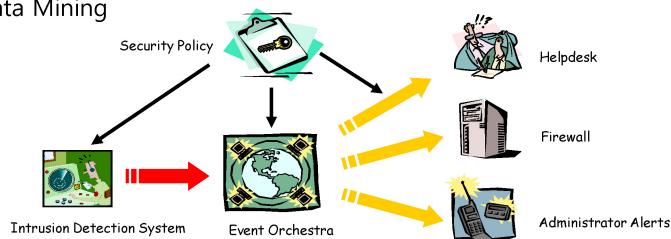
주요수행 과제

- GSM 시스템 호처리 S/W 개발(삼성전자)
- WiMAX 시스템 호처리 S/W 개발(삼성전자)
- LTE, WCDMA, GSM 지원하는 Single RAN(Radio Access Network) 시스템 호처리 S/W 개발(삼성전자)
- 이동통신 네트워크에서 인증 및 과금 S/W 개발(삼성전자)
- 코딩 교육을 위한 임베디드 시스템 보드 및 콘텐츠 개발(제주한라대학교)

연구 관심 분야

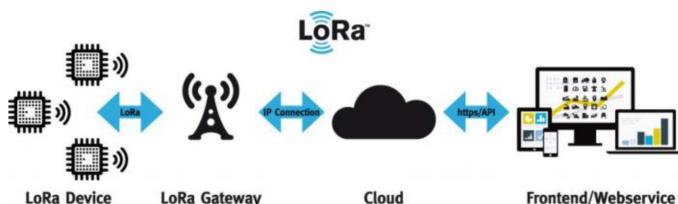
1. Intrusion Detection System Development

- Theoretical analysis & algorithm development
- Intrusion Misuse, Anomaly, Hybrid Detection
- Detection Algorithm : Statistics, Neural Networks, Computer Immunology, Data Mining



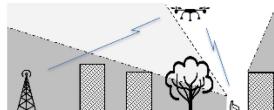
2. LoRa Protocol

- Power reduction for multi-hop solutions
- Time Division Multiple Access (TDMA) over LoRaWAN
- Exploring new channel hopping methods
- Providing Security on LoRa protocol



3. UAV Communication and Navigation

- Trajectory Optimization Under Connectivity Constraint
- Cluster-based communication for UAV
- Data Collection using UAV



최근 주요논문 실적 (SCI/SCIE/SCOPES)

- Minki Cha, Jung-Hyok Kwon, Sol-Bee Lee, Jaehoon Park, **Sungkwan Youm** and Eui-Jik Kim, "Integrated Framework for Keyword-based Text Data Collection and Analysis," *Sensors and Materials*, Vol. 30, No. 3, pp. 439–445, February 2018.
- Jung-Hyok Kwon, **Sungkwan Youm**, Jai-Jin Jung and Eui-Jik Kim, "Quality Adaptation of Constrained Application Protocol Multimedia Streaming in Internet of Things," *Sensors and Materials*, Vol. 30, No. 3, pp. 439–445, February 2018.
- Sunjin Yu and **Sungkwan Youm**, "Long Term Evolution and Satellite Networks Based Ship Accident Alarming System," *Advanced Science Letters*, Vol. 22, pp. 3348-3351, November 2016.
- **Sungkwan Youm**, and Sukhwan Moon, "A Service Characteristics Based Queue Management Method on Access of Capillary M2M," *Advanced Science Letters*, Vol. 22, pp. 3404-3408, November 2016.
- **Sungkwan Youm**, Jai-Jin Jung, Youngwoong Ko, and Eui-Jik Kim, "Resource Efficient Handover Strategy for LTE Femtocells," *International Journal of Distributed Sensor Networks*, Volume 2015, Article ID 962837, pp. 1-8, September 2015.
- **Sungkwan Youm** and Eui-Jik Kim, "Latency and Jitter Analysis for IEEE 802.11e Wireless LANs," *Journal of Applied Mathematics*, Vol. 2013, Article ID 792529, pp. 1-11, September 2015.
- Eui-Jik Kim and Sungkwan Youm, ""Selective Cooperative Transmission in Ad Hoc Networks with Directional Antennas" *International Journal of Distributed Sensor Networks*, Vol. 2013, Article ID 473609, pp. 1-6, September 2015.
- Eui-Jik Kim, **Sungkwan Youm**, Taeshik Shon and Chul-Hee Kang, "Asynchronous Inter-Network Interference Avoidance for Wireless Body Area Networks," *The Journal of Supercomputing*, Vol. 65, Issue 2, pp 562-579, August 2013.
- **Sungkwan Youm**, Taeshik Shon, and Eui-Jik Kim, "Integrated multicast routing algorithms considering traffic engineering for broadband IPTV services," *EURASIP Journal on Wireless Communications and Networking*, Vol. 2013, May 2013.

최근 주요특허 실적

- "3D 프린팅을 위한 단일 영상 기반 3D 모델링 장치 및 그 방법," Korea patent (10-2017-0006103, filed at January 13, 2017).
- "무인 비행체를 이용한 객체 관리 시스템," Korea patent (10-2018-0009929, filed at January 26, 2018).
- 선박을 위한 이동통신 중계 서비스 시스템 및 방법," Korea patent (10-17096850000, registered at February 17, 2017).
- "무인 비행체를 이용한 위치 추적 시스템 및 방법," Korea patent (10-17961930000, registered at November 3, 2017).

수행 희망 연구과제

- 사이버 침입 탐지 기술 및 응용기술 연구
- 임베디드 시스템 소프트웨어 개발
- ICT 융합 연구