

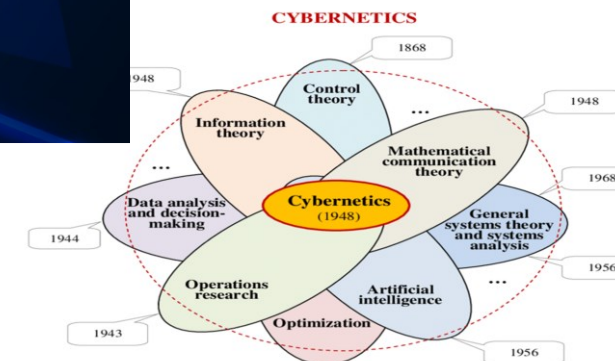


ROAD MAP & RESEARCH DIRECTORY

OF RESEARCH GROUP OF ENTERPRISE SYSTEM DEVELOPMENT
INFORMATION SYSTEM DEPARTMENT
SCHOOL OF INDUSTRIAL AND SYSTEM ENGINEERING

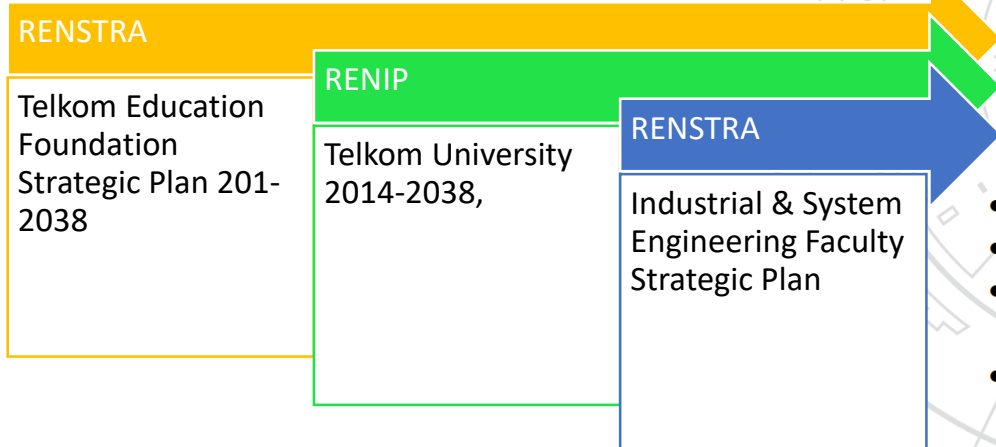


Presented by
Deden Witarsyah Jacob



Vission and Mission

of the Research Group of Enterprise System Development



Vission

Playing an active role in the development of productive and globally superior Information System in Teaching, Research, and Dedicaton towards ICT Industry 4.0

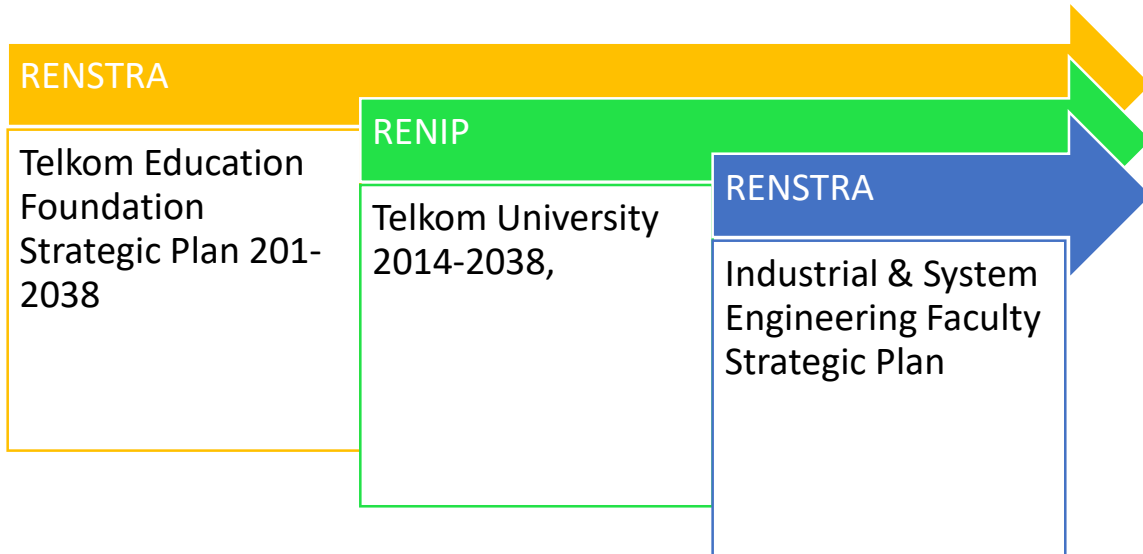
Mission

- Supporting curriculum development in the field of Enterprise Information System
- Producing the publications of nationally and internationally indexed research results
- Building the lecturers' competencies that are in line with the national standards to support the development of the study program
- Carrying out the community services based on the utilization of research results in the field of information system

Purposes

- Generating research in the field of Enterprise/Government system towards ICT for Industry 4.0
- Performing community services to the Enterprise and Government industrial community
- Carrying out the teaching activities and curriculum development in accordance with professionalism

The roadmap for conducting intensive research in three fields is reflected in the 2019-2023 strategic plan, and the first step in the map is defined as:



- Stage A. Development (2019-2020) which is divided into
1. Research : The development of Research quality of lecturer based on expertise in national and international scales.
 2. Community Services : Increasing the number of community services that are beneficial for the government, industry, and NGO based on the problems encountered.

- Stage B. Synthetizing (2021-2022) which is divided into
1. Research: Increasing the number of International Grant, and
 2. Community Service: Innovations produced by research groups in creating a startup in accordance with the needs of the community and the economy in the form of services and products.

- Stage C. Utilization (2023) which is divided into
1. Research: Development of Research Quality, Research Centers, Start Up and The development of spin-off companies. And
 2. Community Services: Increasing the International Collaboration.

ROAD MAP OF RESEARCH AND COMMUNITY SERVICES OF RESEARCH GROUP OF ESD

A. Goals of Research and Community Services of Research Group of ESD

Every research and Community Service carried out in the Research Group of ESD should be directed to the achievement of targets set by the faculty, both quantitatively and qualitatively, namely:

1. Quantitatively (the number), i.e. the number of research results and the realization of Community Services program are carried out; henceforth, the ratio is calculated to the number of permanent lecturers. Cumulatively, the research realization of target achievement is twice the number of permanent lecturers, or every permanent lecturer has an obligation to carry out researches at least twice in one academic year, while the achievement target of realization of Community Services is as many as the number of permanent lecturers, or every lecturer has an obligation to carry out the Community Services at least twice in one academic year.
2. Quantitatively, research results are seen from the research quality of lecturers and/ or students by measuring them through research outcome for the improvement of life values and welfare of the community. The higher the value of benefits and the wider the community can take the advantage of the research results and Community Services, the better the quality of research and Community Services which are conducted.

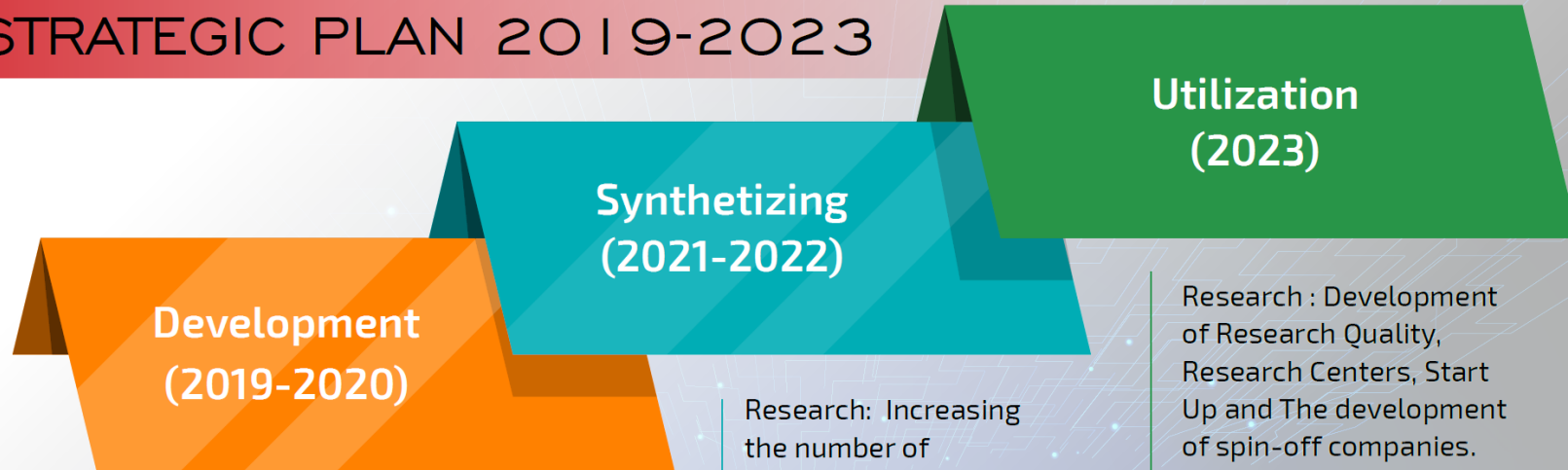
B. Research Strategy and Community Services of Research Group of ESD

The strategies of research and Community Services of the Research Group of ESD are in line with the strategies of Study Program of Information System and School of Industrial and System Engineering which are held on 6 platforms, namely:

- a. Curriculum,
- b. Possessed Potential Resources,
- c. Funding Sources,
- d. Study of Scientific Fields,
- e. Strategic Values, and
- f. Internationalization

The Road Map (Strategic Plan) of the 2019-2023 Researches can be seen in the figure 1 below.

STRATEGIC PLAN 2019-2023



Development (2019-2020)

Research : The development of Research quality of lecturers based on expertise in national and international scales.

Community Services : Increasing the number of community services that are beneficial for the government, industry, and NGO based on the encountered problems.

Synthesizing (2021-2022)

Research: Increasing the number of International Grant.

Community Services: Innovations produced by research groups in creating a startup in accordance with the needs of the community and the economy in the form of services and products.

Utilization (2023)

Research : Development of Research Quality, Research Centers, Start Up and The development of spin-off companies.

Community Services : Increasing the International Colaboration.

Based on the Platform :

Curriculum, Human Resource, Funding, Knowledge, Value and Internationalization



• Figure 1. Road Map of the 2019-2023 Reseach and Community Services

Research Tree

The existence of research tree is important since it gives the overview of existing and ongoing research, priorities of research, and the future research. It also gives the information on the physical infrastructure, intellectual infrastructure, research coordination, and management. It is hoped that rough such information it can facilitate the future research, expertise and capacity to be made. The research tree can also give direction and guidelines for the future research which will improve the quality of research. There is a research tree from three core-competences in the Research Group of ESD which gives the overviews of cluster research from each of core competence. The core research put forward is designed to be unique, smart, have competitive edge, applicable and implemented. The research activities of each core competence can mobilize academic staffs who are doing research and support and promote research fields in the Study Program of Information System. Figure 2 portrays the 3 core components (Professionalism), they are:

1. Information System Development
2. Enterprise Data Management
3. Technopreneurship.

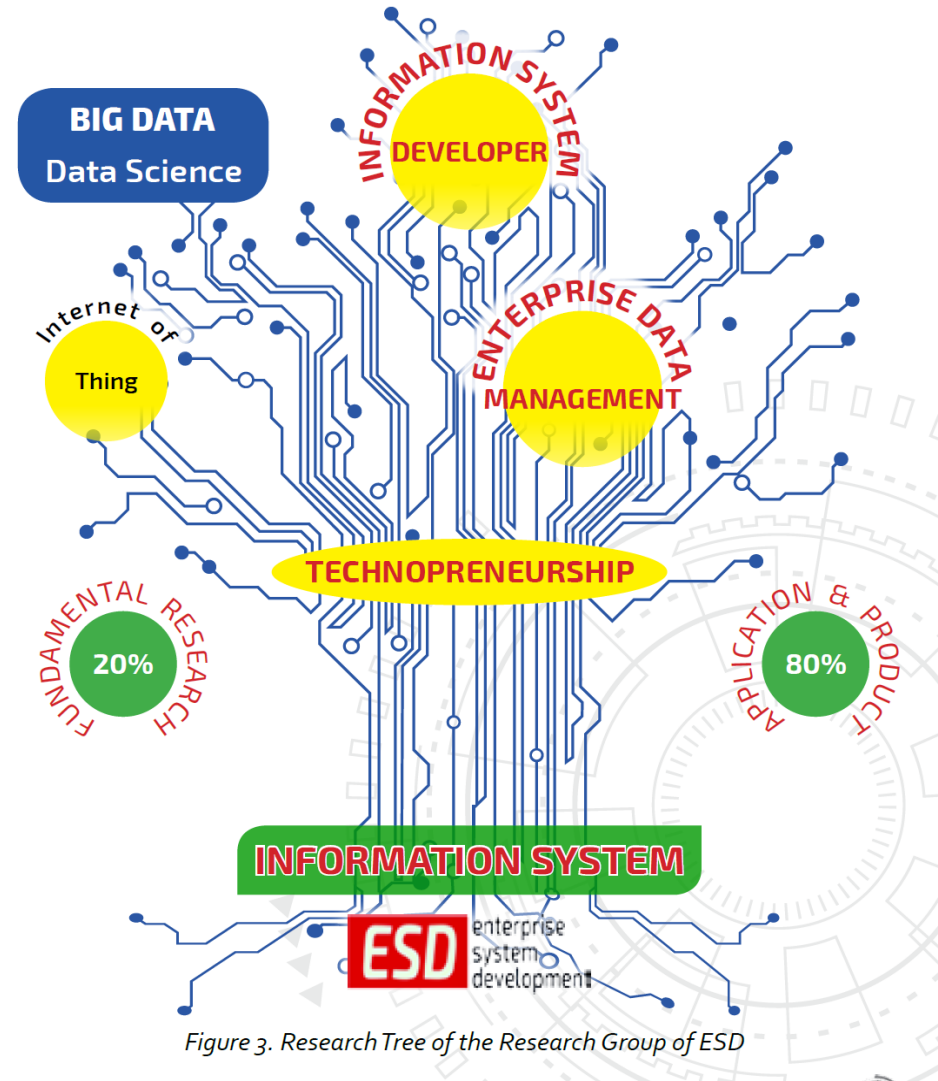


Figure 3. Research Tree of the Research Group of ESD

STRATEGIC PLAN

THE grand strategy of Research Group of ESD, which is stated that the 2019-2023 Strategic Plan of Expertise Group is to strengthen the noble research and community services to increase the Research Group level of ESD in international standard. This can be achieved by:

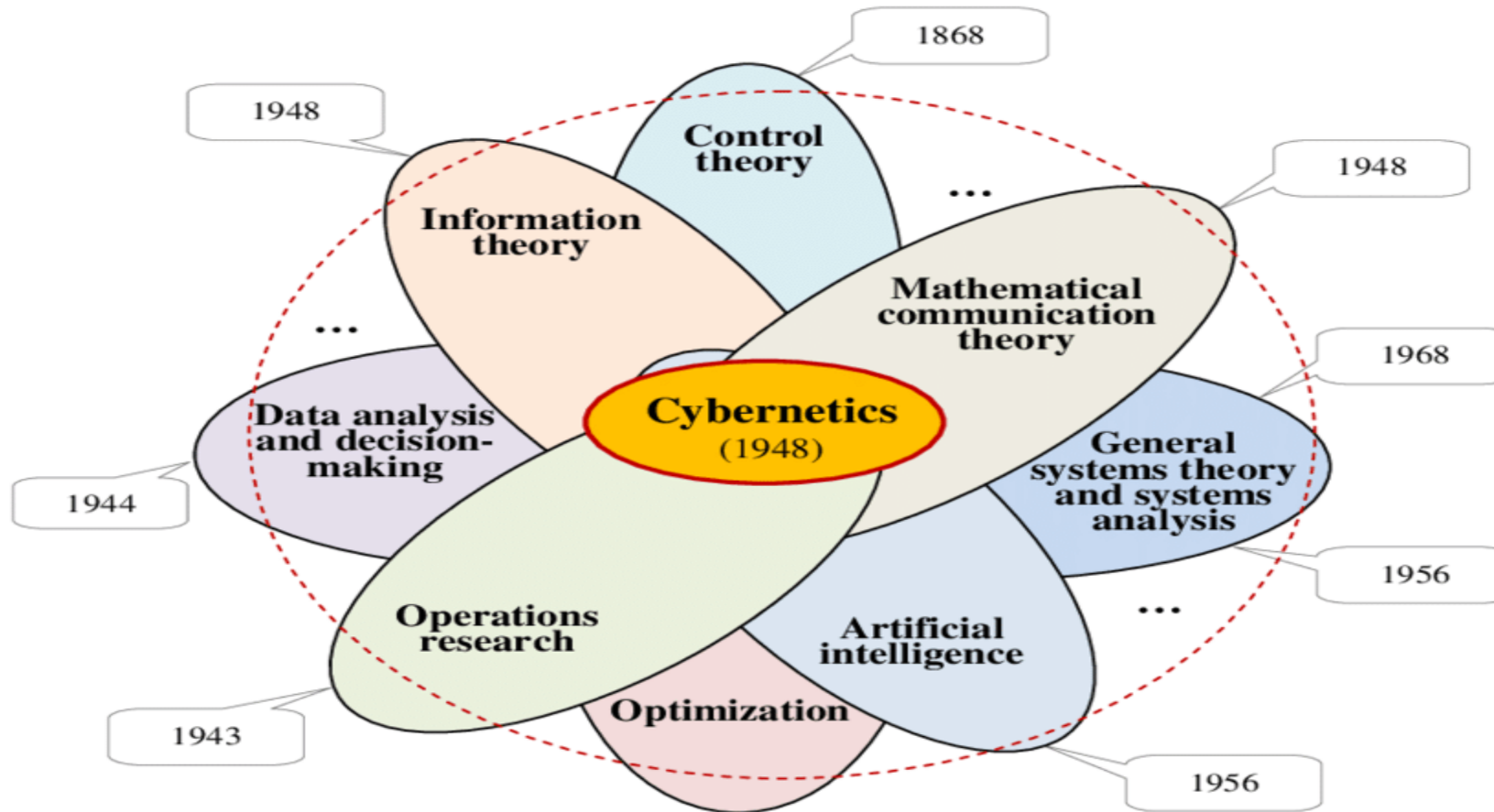
- ◆ Human resource database based on professionalism
- ◆ Creating comfortable environment for doing research and community services programs
- ◆ Giving directional research and community services program
- ◆ Giving support to develop cluster and leading research
- ◆ Providing well infrastructure and research facilities
- ◆ Collaborating with industries, small medium enterprise and Community
- ◆ Commercialization of research outputs
- ◆ Increasing international joint conference
- ◆ Increasing International joint community services
- ◆ Increasing publications in international journals
- ◆ Increasing patents
- ◆ Increasing the awareness of intellectual property rights



20 Mei 2020

TRANSFORMATION

CYBERNETICS



Lab. Enterprise Data Engineering



Dr. Oktaria Nurul

Lab. Enterprise Intelligent System



Total Member :
Ph.D : 6
Phd Cand. : 5
Master : 15



Dr. Tatang Mulyana

Lab. Enterprise System Development



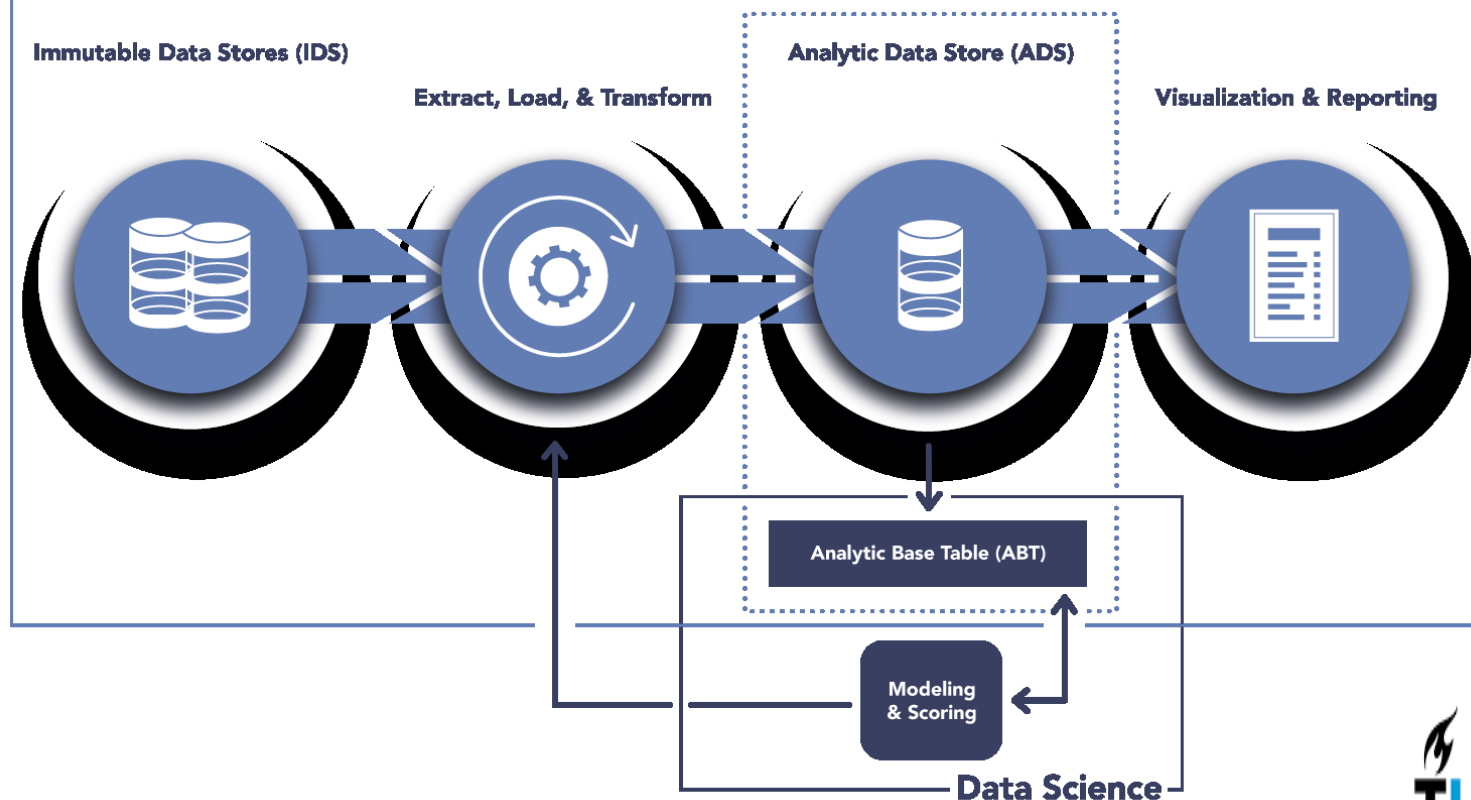
Alvi Syahrina M.Sc.

ENTERPRISE DATA ENGINEERING LAB

Data Engineering is the discipline of designing, building, and maintaining a robust infrastructure for collecting, transforming, storing, and serving data for the purposes of machine learning, analytic reporting, and/or decision management. Data Engineering is the enabler for efficient and operationalized Data Science.

EDE lab focuses research on DATA ENGINEERING FOR ENTERPRISE SOLUTION

Data Engineering

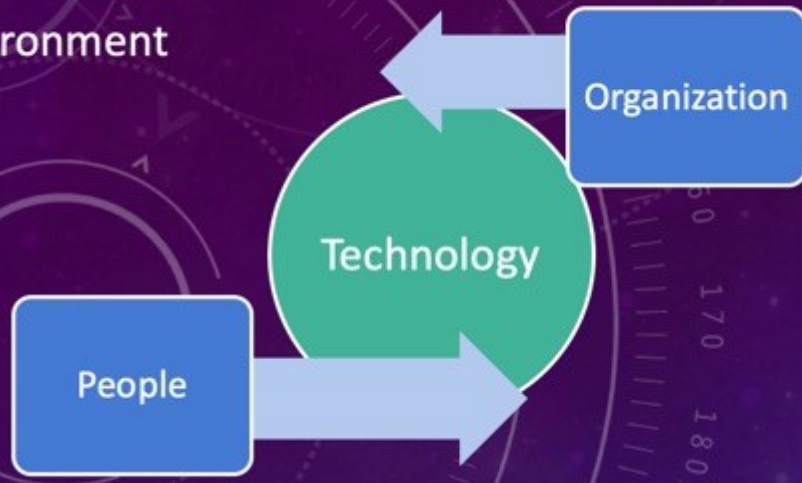


ENTERPRISE DATA ENGINEERING (EDE) lab focuses research :

- ▶ Data mining
- ▶ Process mining
- ▶ Data modeling techniques
- ▶ Relational and non-relational database theory and practice
- ▶ Database clustering tools and techniques
- ▶ ETL design
- ▶ Architectural projections



Environment

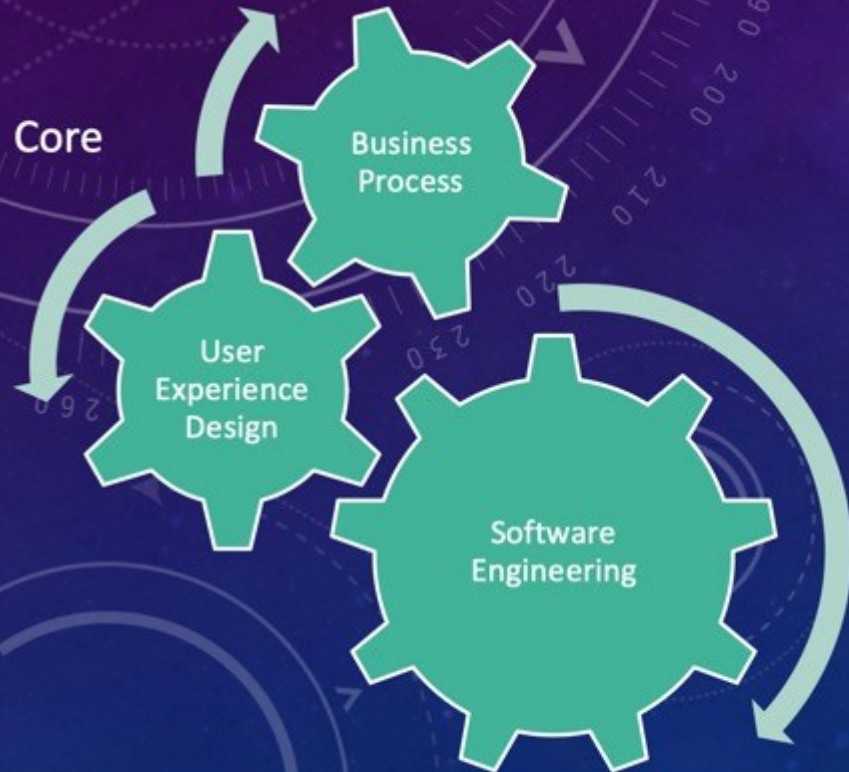


ENTERPRISE SYSTEM DEVELOPMENT

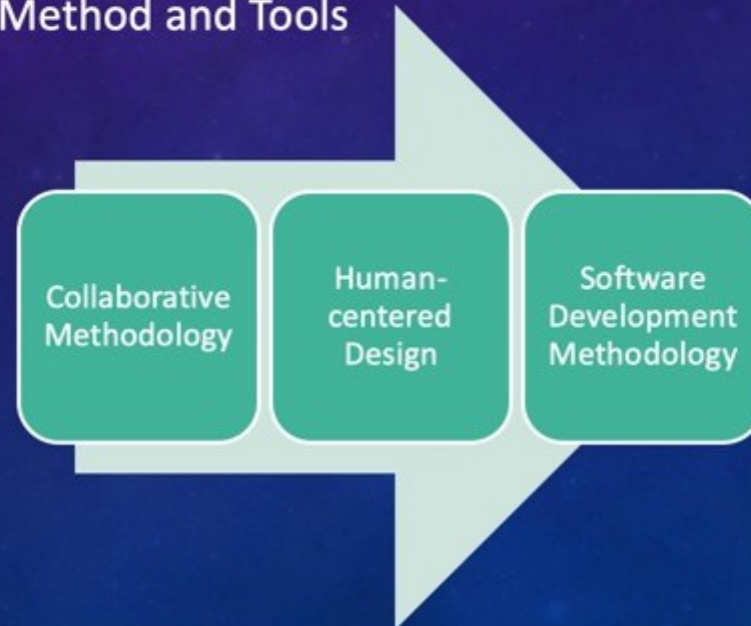
RESEARCH GROUP – FAKULTAS REKAYASA INDUSTRI - 2020

ESD is a research laboratory is a melting pot for researchers in the scientific fields of application of software methods and technologies that focus on human behavior at the issues of organization and information systems.

Core



Method and Tools



Application



ENTERPRISE INTELLIGENT SYSTEM LABS

The recent trend has been using hybrid approach rather than using a single intelligent technique to solve the problems. The EIS lab focuses on research related a framework to develop enterprise solutions that are empowered by intelligent techniques. It emphasize not only the usage of intelligent techniques but also the environment that includes various interfaces and components to develop the intelligent solutions. It leverages the cybernetics concept, which is the science concerned with the study of systems that are capable of receiving, storing and processing information for control.

Product	Enterprise Intelligent System
Technology and Applications	Industrial Internet of Things Industrial Robotics Artificial Intelligence
Design	Agent Oriented System Engineering
Methodology	Industrial Informatics Cybernetics



COLLABORATION RESEARCH GROUP

Center of Disaster Resilience and Sustainable Development

Telkom University Collaboration:
 School of Industrial and System Engineering
 School of Computing
 School of Economy and Business
 School of Applied Science

Partnership with:
 Institut Teknologi Bandung
 Universiti Teknologi Brunei
 Coventry University
 Penn State



Strategic Goal	Disaster Risk Science and Engineering	Trending Technologies for Natural Disaster Risk Reduction	Disaster Data Science and Management:
Developing and applying risk-aware infrastructure monitoring system	Risk and vulnerability assessment, multi-hazard modelling, numerical modelling and simulations, resilient public infrastructure, resilient built environment.		
Developing and applying trending technologies for disaster resilience		Climate change, Remote Sensing, GIS, Drone, UAV, ICT and AI applications in multi-hazards scenario, weather forecast and early warning.	
Developing and applying management information system for disaster resilience and sustainable development			Big Data, Cloud sourcing of disintegrated data, disaster data management, risk communication, decision support system.

- ### Recent Research
- Bridge Structural Health Monitoring System
 - Bridge Damage Detection and Localization

- ### Forthcoming Research
- Disaster Sensitive Plan and Decision Support System
 - Drone-enabled Autonomous Bridge Inspection



Pemanfaatan Scrum utk Pengelolaan KK

The screenshot shows a Trello board for 'Enterprise System Development' with a Scrum workflow for managing research grants (KK). The board is organized into five columns representing different stages of the process:

- Working On:**
 - Daftar Proposal, Project on Going, atau Naskah Naskah Publikasi, atau Naskah yang sedang diperbaiki
 - Penelitian kemitraan (aplikasi Data Quality Management)
 - Gamification for intergenerational innovation
 - Kemitraan Bumdes Gambung, pembuatan platform e-commerce
- Waiting For:**
 - Daftar Proposal atau Naskah yang telah disubmit
 - Penelitian : Platform aplikasi assessment
- Recently Completed:**
 - Daftar Proposal/Project/Naskah selesai
 - UCare - Aplikasi Self-Diagnose, Self-Quarantine, Health Status
- Someday, maybe:**
 - Ide-ide, informasi pendanaan, dsb
 - RistekBRIN IDEATHON
 - ICADEIS
- Goals:**
 - Target KK
 - S2: Anggota Peneliti, 2 Publikasi Terindeks, Abdimas, Sitasi
 - S3: Ketua Peneliti, 2 Publikasi Terindeks, Abdimas, Sitasi

The board also features a calendar, a Butler automation tool, and a show menu. The background of the board is a green field of rice stalks.

INTERNATIONAL COLLABORATION

Lab. Enterprise Data Engineering

Lab. Enterprise Intelligent System

Lab. Enterprise System Development



THE UNIVERSITY of EDINBURGH



서울대학교
SEOUL NATIONAL UNIVERSITY



UNIVERSITY OF CAMBRIDGE



Coventry University



HOCHSCHULE RUHR WEST
UNIVERSITY OF APPLIED SCIENCES



Manage conference under KK

Call for Papers ICoDEIS 2019

**THE INTERNATIONAL CONFERENCE ON DATA ENGINEERING AND INFORMATION SYSTEM
5-6 NOVEMBER 2019, BALI, INDONESIA**

The International Conference on Data Engineering and Information System (ICoDEIS 2019) in conjunction with Ironman Research Center, Precision Machining Research Center (PREMACH) and The 2019 International Conference on Internet of Things and Intelligence System (IoTals 2019) will provide an excellent international forum for sharing knowledge and results in theory, methodology and applications of computer science, especially in the areas of data engineering information system and Manufacturing. The aim of the conference is to provide a platform to the researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field. This international conference and workshop comprising two days of key notes and full paper presentations of new research findings in the fields of computer science and engineering Accepted papers will be published in IEEE Explore & International Journal of Integrated Engineering (IJIE) Indexed by Scopus and Thomson-Reuters.

T R A C K

1. DATA SCIENCE
Chairperson: Assoc. Prof. Dr. NurFadhilina Mohd Sharef
E-mail: nurfadhilina@upm.edu.my

- Data Engineering
- Data Analytic
- Machine Learning Models
- Data Retrieval
- Data Mining
- Data Science
- Data Infrastructure
- Information Science
- Information System
- Open Data Government
- Network Security
- Network Management
- Artificial Intelligence
- Business Intelligence

3. MANUFACTURING
Chairperson's Assoc. Prof. Ts. Dr. Mohd Rasidi Ibrahim
E-mail: rasidi@uthm.edu.my

- Green Machining and Sustainable Manufacturing
- Industrial and Automation Manufacturing
- Maintenance and System Engineering
- Energy Management System
- Advanced Machining and Rapid Prototyping
- Industrial Engineering and Operations Management
- Science and Engineering of Materials
- Acoustics, Vibration and Condition Monitoring
- Fatigue and Fracture Mechanics
- Fluids Mechanics and Heat Transfer
- General Mechanical and Manufacturing Engineering
- Engineering Design
- Engineering Education

2. OPEN DATA GOVERNMENT
Chairperson: Deden Witasaryah Jacob Ph.D
E-mail: dedenw@telkomuniversity.ac.id

- Data Analytics for Public Policy and Services
- Open Government Innovations
- Smart Cities in the Age of AI
- Social Media and Government
- Maturity and Sustainability of Open Governmental Data
- Organizational Factors, Adoption Issues and Digital Government Impacts
- The Ethics of Artificial Intelligence: Implications For Digital Government

Keynote Speaker
Prof. Dr. Peter Dell
Prof. Dr. Kazutsuna Yamaji

Contact us
ICoDEIS Secretariat
Faculty of Industrial Engineering
Telkom University, Indonesia
icodeis2019@gmail.com
www.icodeis.com

IMPORTANT DATES

Submission of Paper Deadline : September 14, 2019
Acceptance Notification : October 20, 2019
Camera Ready Submission Deadline : October 25, 2019
Registration Deadline : October 30, 2019
Conference Dates : November 5-6, 2019

Conference Fees : Rp. 8.000.000,-
Participant : Rp. 4.000.000,-

CALL FOR PAPERS

THE INTERNATIONAL CONFERENCE ON ADVANCEMENT IN DATA SCIENCE, E-LEARNING AND INFORMATION SYSTEMS 2020

Lombok, Indonesia.
20-21 October 2020

INTRODUCTION

We cordially invite you and your colleague to participate in 2th The International Conference on Advancement in Data Science, E-learning and Information Systems 2020. The theme of this conference is "Data and Digital Inovation toward Satu Data Indonesia." The conference will be held on October 20-21, 2020 at Lombok, Indonesia. This conference is organized by Open Data Research Center & Enterprise System Development Research Group of Information System Department, Telkom University. All papers (Accepted and Presented) has opportunity for publication in IEEE Xplore (Scopus Index). Selected and extended papers will be considered for journal publication.

Topics on interest include, but are not limited to the following :

1. DATA SCIENCE

2. E-LEARNING

3. INFORMATION SYSTEM & OPEN GOVERNMENT DATA

Important Deadlines

Extended of Full Paper : 25 June 2020
Notification of Acceptance : 30 July 2020
Registration & Camera Ready : 5 August 2020
Conference Date : 20-21 October 2020
Registration Fee : 551 US \$ / Rp. 8.000.000,-

KEYNOTE SPEAKERS

Prof. Jun Seok Hwang
Seoul National University
South Korea

A. Prof. Dr. NurFadhilina Mohd Sharef
Universiti Putra Malaysia
Malaysia

Prof. Richardus Eko Indrajit
APTIKOM
Indonesia

Secretariat :
Information System Department
Faculty of Industrial Engineering
Telkom University, Indonesia
icadeis2020@gmail.com

Organized by:

Manage conference under KK

ICFC 2020
11TH INTERNATIONAL CONFERENCE ON FINANCIAL CRIMINOLOGY (ICFC) 2020
 "Enhancing Accountability towards Financial Crimes Mitigation in Digital Era"

SPEAKERS
 The distinguished speakers are professionals who are knowledgeable, with vast experiences in investigations, accounting, legal aspects, auditing, management and related areas in lieu of the conference theme.

CALL FOR PAPERS
23-24 JULY 2020
 Cambridge University, United Kingdom
<https://ari.uitm.edu.my/main/icfc2020>
11th.icfc2020@gmail.com

IMPORTANT DATE

Abstract Submission	31 March 2020
Decision on Abstract	15 April 2020
Final Paper Submission	31 May 2020
Conference Date	23-24 July 2020

Visit our website | Scan for registration

SPEAKERS:

- PROF DR ROB McCUSKER**
Transnational Crime Director, Global Risk Alliance Ltd. United Kingdom.
- PROF DR NORMAH OMAR**
Director Accounting Research Institute (ARI) Universiti Teknologi MARA (UITM), Malaysia.
- DR MORRISON HANDLEY SCHACLER**
MA, DPhil, FCPFA, FHEA Lecturer in Accounting Edinburgh Napier University, Edinburgh Scotland.
- PROF DR FARID A. SOBHANI**
Professor School of Business & Economics, United International University Bangladesh.
- DR LEONARDUS W. WASONO MIHARDJO**
ST, M.Eng., IP., CMA PT Telekomunikasi Indonesia International (Telin), Indonesia

"The Utilization and Mining of the data to Digital Transformation"

FREE/GRATIS
 Registration Link:
bit.ly/SeminarData

Speakers:

- Prof.dr.ir. Marijn Janssen**
Head of the Information and Communication Technology section of the Technology, Policy and Management Faculty of Delft University of Technology Netherlands
- Prof. Dr. Jan M. Pawlowski**
Professor Business Information Systems Ruhr West University of Applied Sciences Germany
- Deden Winarsyah Jacob, S.T., M.Eng., Ph.D**
Head of the Cybernetic Expertise Group FRI Lecturer
- Muhammad Azani Hasibuan, S.Kom., M.T.I.**
Ph.D candidate (University of Western Australia) FRI Lecturer
- Dr. Oktariani Nurul Pratiwi, S.Kom., M.T.**
Head of the Enterprise Data Engineering Group FRI Lecturer
- Hilman Dwi Anggana, S.Si., M.Si**
FRI Lecturer

Monday, May 18, 2020

- Season 1 : 2pm - 3pm Prof. Jan: Digital Transformation
- Season 2 : 3pm - 4pm Deden, P.hD : Open Government Data
- Season 3 : 4pm - 5pm Azani, M.T.I : Data Visualization

Tuesday, May 19, 2020

- Season 4 : 2pm - 3pm Prof Marijn : Open Data
- Season 5 : 3pm - 4pm Dr. Nurul : Data Analytics in Education
- Season 6 : 4pm - 5pm Hilman, M.Si : Data Analytics with R-Studio

KK Cybernetics
 Enterprise Data Engineering Lab
 Present

OnlineSeminar
 May 18-19th, 2020
 2 - 5 PM (WIB)

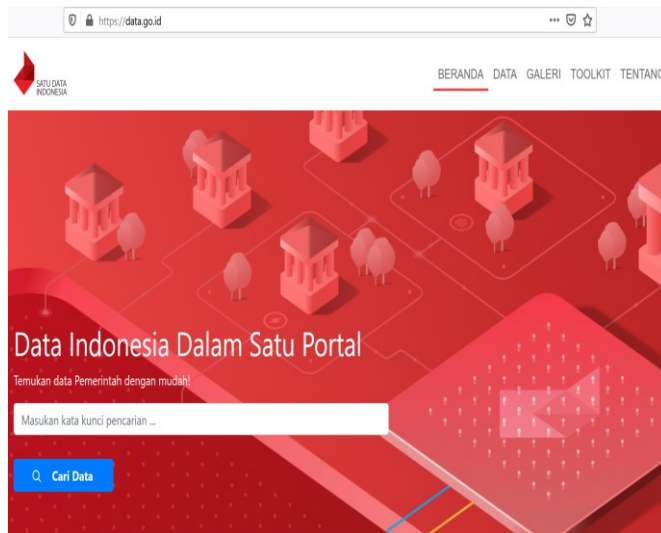
LIVE BROADCAST VIA ZOOM APP
 Zoom Meeting ID & Password will be sent from Email

Every participant will get *E-Certificate*

CP : 081563725902 | 081224343087

Manage conference under KK

Workshop satu dan open data Indonesia Nusa dua Bali , 7 Maret 2021



Thanks for your attention
Any question