



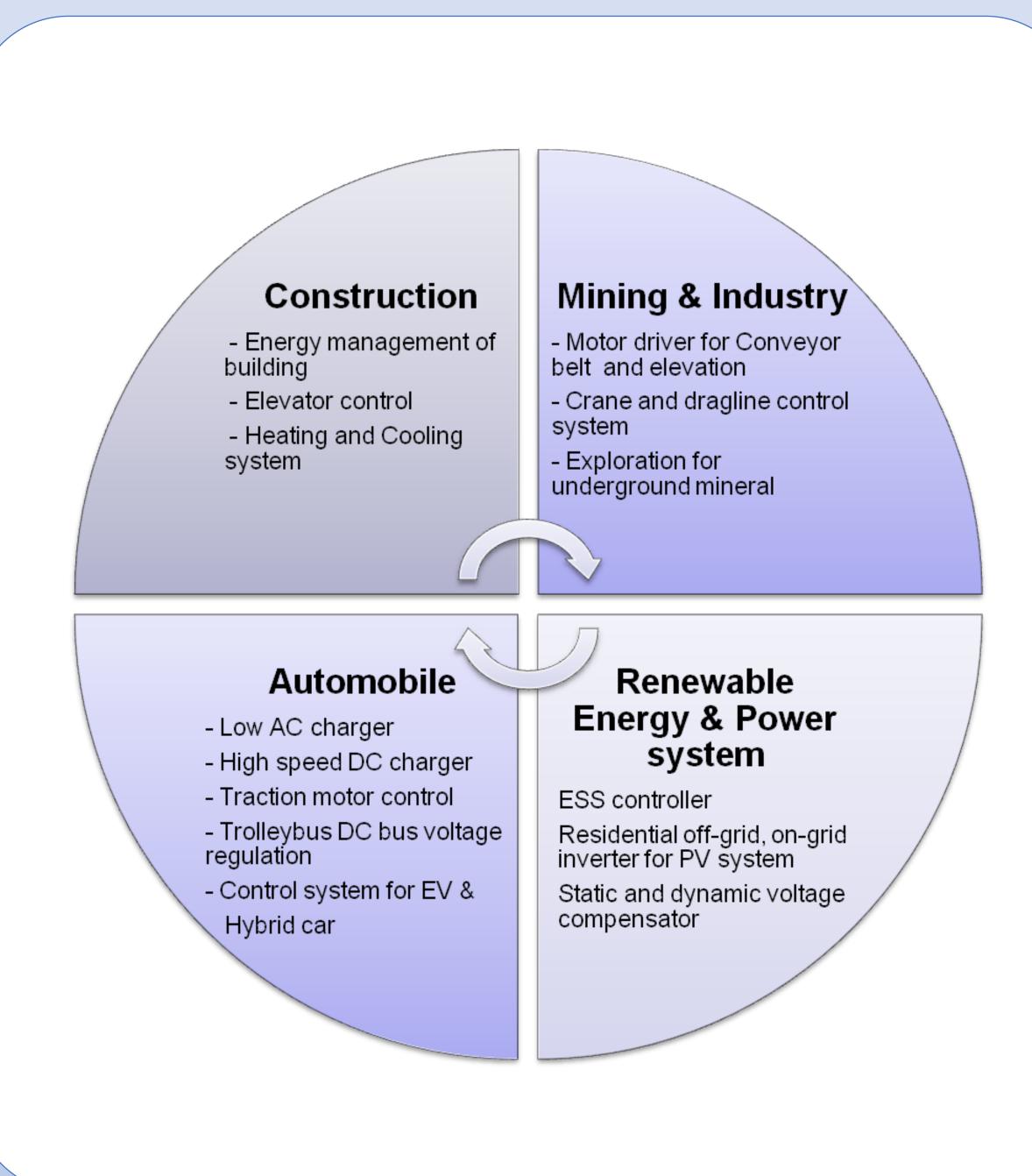
J14C16: Research and Development for Power electronics and Industrial automation

Background

Our research project working on research and development of three main sub-topic and they are e-learning, power electronics and industrial automation. Result of the sub-projects include research paper, conference and seminar presentation, patents and small models etc. Also, main results and progress results of the research project are countable. As for the MJEED project, the results can be seen as experimental environment preparation, equipment and tools acquisition for experiment and depending on continuation of academic work of degree and non-degree personnel.

SCOPE OF R&D

RESEARCH TEAM STRUCTURE



R&D of Engineering Education

研究代表者 モンゴル側研究代表者: D.Bayasgalan准教授(モンゴル国立大学) 日本側研究代表者 : 宇佐川毅教授(熊本大学) A. Research and C. Research and B. Research and development on development on development on online learning engineering power electronics education Team leader: Team leader:

Team members: - Tsuyoshi Usagawa

1. Hajime Miyauchi 2. Toshihisa Shimizu 3. Ichiro Omura

Bayasgalan Dugarjav

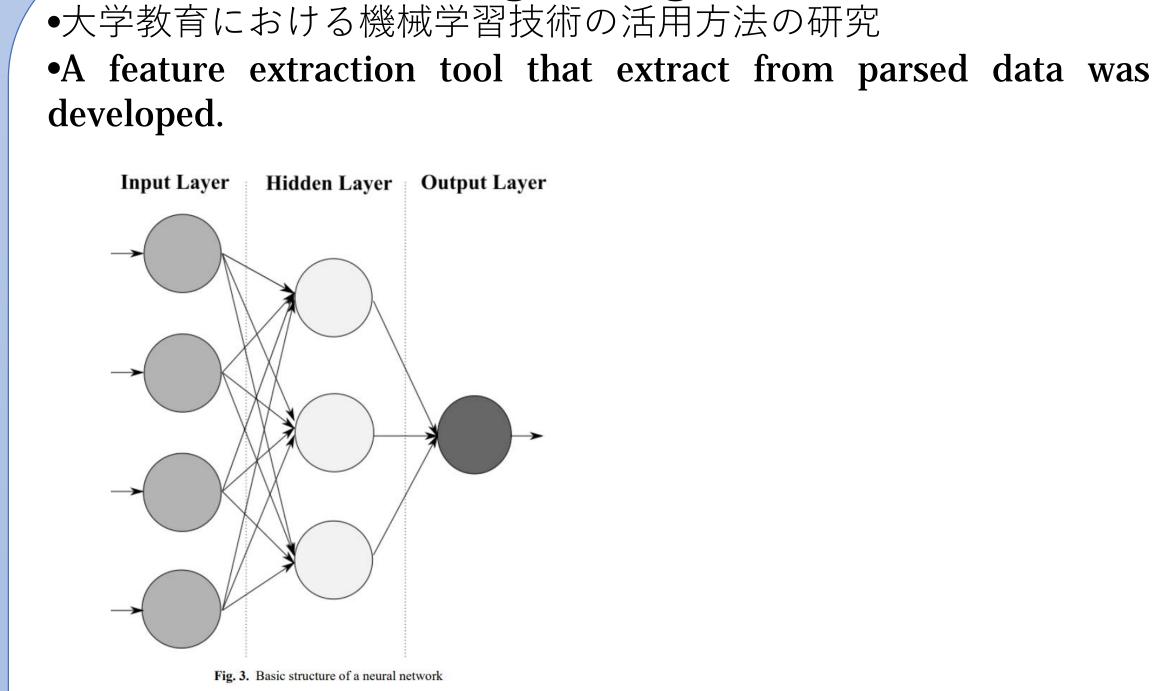
Team members: 1. Takemi Matsui 2. Gou Koutaki

Lodoiravsal Choimaa

ACHIEVED RESULTS OF SUB-PROJECTS

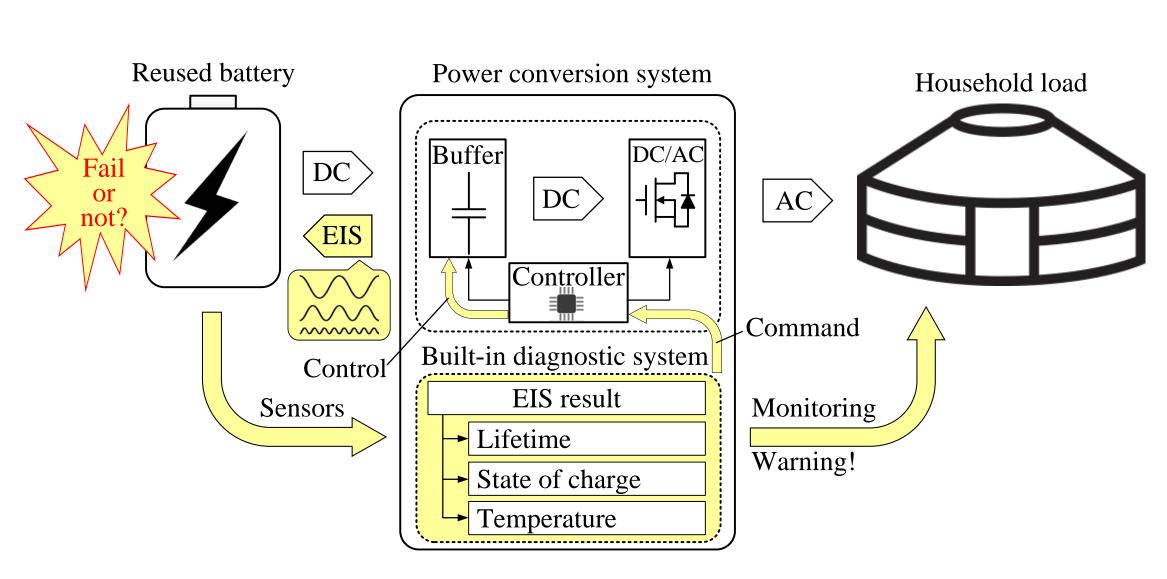
Team leader:

Lodoiravsal Choimaa



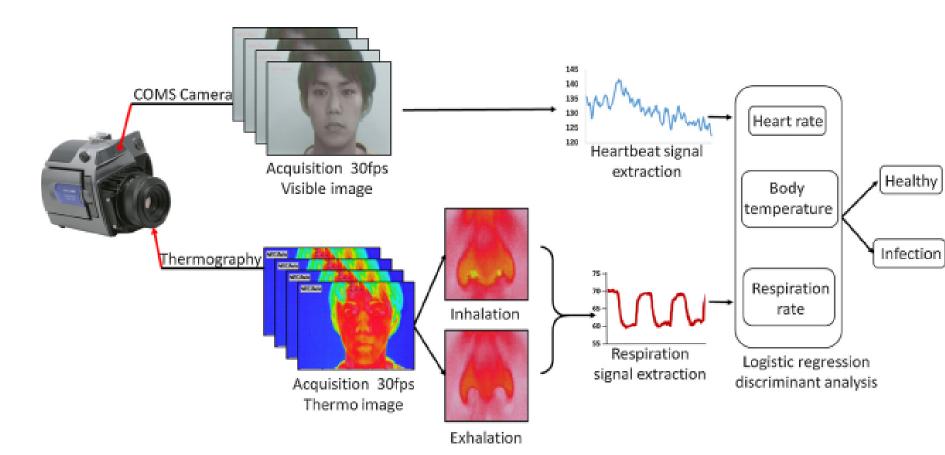
	Name	Definition
x_{201}	number forum responses	Number of forum responses
*x ₂₀₂	average number of submissions percentile	A student's average number of submissions (feature 9) as compared with other students that week as a percentile
*x ₂₀₃	average number of submissions percent	A student's average number of submissions (feature 9) as a percent of the maximum average number of submissions that week
*x ₂₀₄	pset grade	Number of the week's homework problems answered correctly / number of that week's homework problems
x_{205}	pset grade over time	Difference in grade between current pset grade and average of student's past pset grade
*x ₂₀₆	lab grade	Number of the week's lab problems answered correctly / number of that week's lab problems
x_{207}	lab grade over time	Difference in grade between current lab grade and average of student's past lab grade
x_{208}	number submissions correct	Number of correct submissions
x_{209}	correct submissions percent	Percentage of the total submissions that were correct (x_{208} / x_7)
$*x_{210}$	average predeadline submission time	Average time between a problem submission and problem due date over each submission that week

R&D of Power Electronics • ハイブリッド電気自動車から廃棄されるニッケル水素電池を 家庭用エネルギーシステムに再利用するソリューション 開発研究

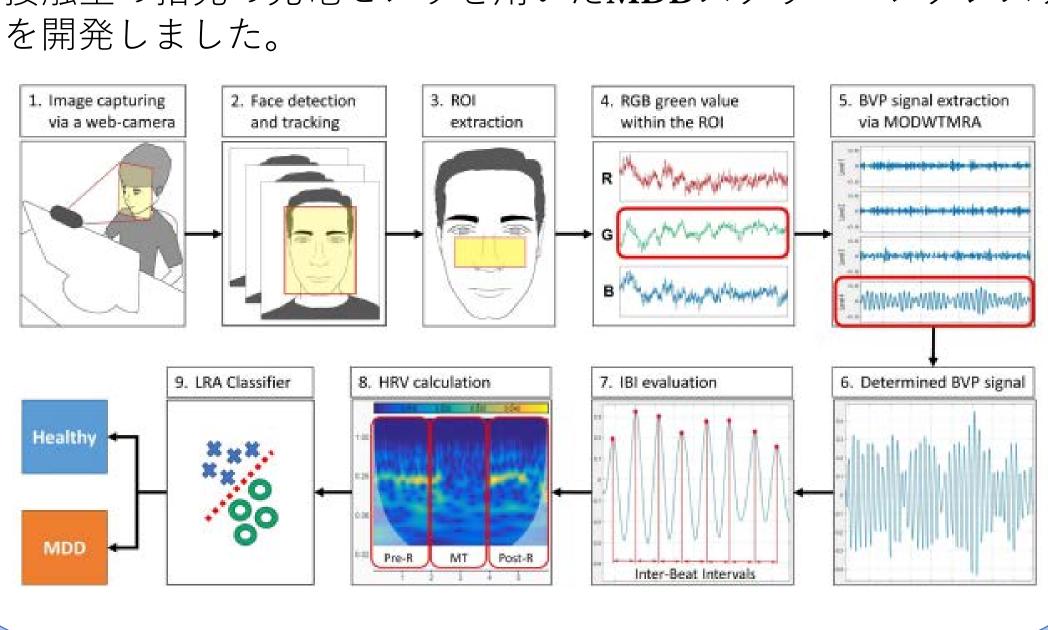


R&D of industry Applications

項目応答理論(Item Response Theory; IRT)を基にした 複数のバイタルサインを遠隔で感知し、感染症の疑いの ある患者を迅速かつ正確にスクリーニングするための 祖ステム開発



大うつ病性障害(MDD)の潜在的な患者の受診率を高めるために 、接触型の指先の光電センサを用いたMDDスクリーニングシステ ムを開発しました。



CONTACTS

Joint research team leader: Associate prof. D.Bayasgalan

Ikh Surguuliin Gudamj-1 P.O.Box -46a/523, 14201 Ulaanbaatar, Mongolia

+976-9111-4025 dbsgln@gmail.com

www.seas.num.edu.mn

MJEED (PIU) Project Implementation Unit

Central library 605, Mongolian University of Science and Technology, Sukhbaatar -8, Ulaanbaatar

+976-11-315563 piu.heedproject@gmail.com www.mjeed.edu.mn

Working group or **Technology transfer center**

Ikh surguuliin gudamj-1 p.O.Box -46a/523, 14201 Ulaanbaatar, Mongolia +976-9909-6085

purevsuren_ts@num.edu.mn www.num.edu.mn

Asia SEED Registered Non-Profit Organization

Suitengu Hokushin Bldg. 7F 1-39-5 Nihonbashi-Kakigara-cho, Chu-ku, Tokyo 103-0014, Japan

+813-6206-2222 mjeed@asiaseed.org www.asiaseed.org