

TAIST Tokyo Tech

Newsletter

Jan. 2009 Vol.1

2007年に「自動車工学：AE」、2008年に「情報通信技術・組込システム：ICT」プログラムを開設しました。続いて「環境工学：EnVE」、「生命理工学：BIO」を計画推進中です。



’08年度 AE (上)、ICT (下) プログラムの学生、講師など (2008年6月撮影)

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ICT 東工大教員による講義および実習 (遠隔講義と現地講義含む)

- ・ 組込システムのソフトウェア
- ・ 組込システムのハードウェア
- ・ 通信
- ・ 信号処理
- ・ 情報処理
- ・ 環境と制御システム
- ・ ソフトウェア設計演習
- ・ ハードウェア設計演習
- ・ コンピューター数学

上野、一色、杉野
高橋、前島、杉野
植松、松本
西原、小林、奥村
佐藤、小池、Zhang
高橋、小杉、角本、赤城、藤田

TAIST Tokyo Tech 賛助会について

賛助会員企業からのニーズに対応して、共同研究開発、技術コンサルティングなどの有効な技術的アウトプット、人材育成、情報提供等の面で協力が可能です。

教員の専門領域技術でのコンサルティングなど要望がありましたら東京工業大学国際室内 TAIST 事務局 (紫村次宏) 宛にご相談下さい。

教員 (8-13 ページ参照) の専門分野詳細については東京工業大学のホームページをご覧ください。

<http://www.titech.ac.jp/>

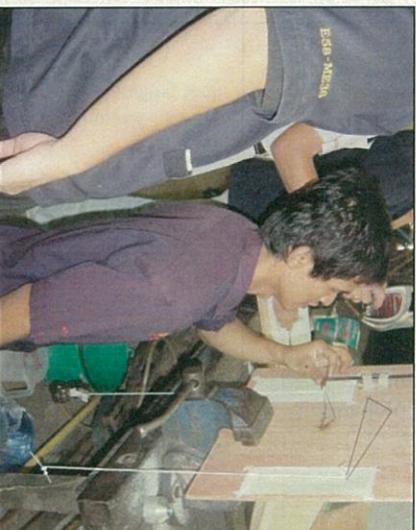
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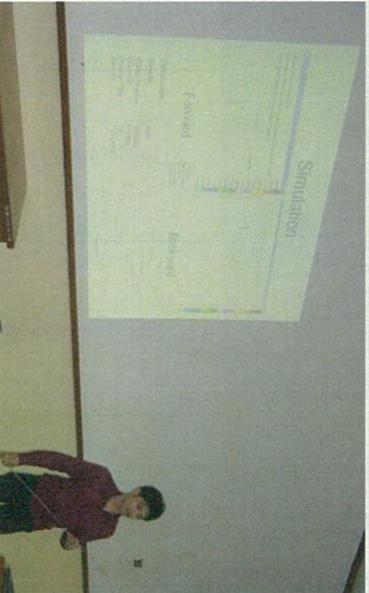
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神本教授とチンダ先生の講義



針金モターのシミュレーション実習



実習の結果プレゼンテーション



エンジン組立実習

7	Manop Masomtob		B.Eng, Mechanical Eng.	2002, KMITL	MTEC	Prof. Katsunori Hanamura	The Electrical Conductivity of Wire for High Temperature in Solid Oxide Fuel Cell
8	Tiwagorn Pudpong		B.Industrial Education, Electrical Power	2001, Patumwan Institute of Tech.	CH. Radiators, Co.,Ltd.	Prof. Isao Satoh	Factors Affecting Hollow Section Shape Forming During Water Asisted Injection Molding Process
9	Wittawat Imerb		B.Eng, Mechanical Eng.	2007, KMITL	NA	Prof. Katsunori Hanamura	Effect of ethanol-unleaded gasoline blends on engine control with ECU-performance and exhaust emission
10	Teerawut Reungkiattikul		B.Eng, Tool and Material Eng.	2006, KMUTT	CH. Auto Parts	Assoc. Prof. Itsuro Kajiwara	Testing and development of suspension system (lower Arm)
11	Songpon Klinchaeam		B.Eng and M.Eng, Mechanical Eng.	2007, Mahanakorn Univ. of Tech.	Mahanakorn Univ. of Tech.	Prof. Masaaki Okuma	Condision monitoring of diesel engine using vibration signals analysis
12	Winit Jaiboon		B.Eng, Mechanical Eng.	2004, KMITL	CH. Auto Parts	Assoc.Prof. Seiji Okawa	Simulation of heat transfer from automotive radiator louvered fins

19	Sakda Thongchai		B.Eng, Mechanical Eng.	2001, KMITL	MTEC	Prof. Takeyuki Kamimoto	Direct-Injection Diesel Engine: Efficiency Assessment with Biodiesel via Simulation Tool
20	Watcharapong Sirikul		B.Eng, Agricultural Machinery Eng.	2007, Rajamangala Univ. of Tech. Thanyaburi	NA	Assoc. Prof. Tadaharu Adachi	Determination flow stress by hydraulic bulge test
21	Yoke Nusom		B.Eng, Agricultural Machinery Eng.	2007, Rajamangala Univ. of Tech. Thanyaburi	NA	Assoc. Prof. Tadaharu Adachi	Development of closed cell aluminium foam for structural applications in future cars
22	Keerasut Suttanarak		B.Eng, Farm Machinery Eng.	2005, Khonkaen Univ.	Thai Summit Auto Parts	Prof. Shuichiro Hirai	Study the effect of flow field design to eletro chemical reaction in Proton Exchange Membrane Fuel Cell (PEMFC) by Numerical modeling.
23	Jiradech Nakngoenthong		B.Industrial Tech., Welding Tech.	1998, KMITN	MTEC	Prof. Isao Satoh	Development of injection molding process biopolymer for automotive part

Kunio Takahashi		http://www.ide.titech.ac.jp/%7Etakahak/index_org.html	Welding and Joining	Department of International Development Engineering	Bonding joining welding, Tribology, Surface Science
Hiroyuki Umemuro		http://www.umemuro.org	Quality Management and Production Planning	Department of Industrial Engineering and Management	Development, Production and Distribution Engineering Design and Emotion Affective Design Geron technology; Human factors
Shuichiro Hirai			Fundamentals of Combustion	Department of Mechanical and Control Engineering	Sequestration of CO2 in ocean Direct numerical simulation of turbulent flow MRI measurement of heat, mass and momentum transport
Hidenori Kosaka		http://www.ec.ctrl.titech.ac.jp/English/index.htm	1. Thermodynamics in Internal Combustion Engines 2. Combustion Technologies in Internal Combustion Engines	Department of Mechanical and Aerospace Engineering Structural Dynamics Design Laboratory	Internal Combustion Engine, Combustion Engineering, Laser Diagnostics, Thermo-Fluid Dynamics
Takeyuki Kamimoto			1. Combustion Technologies in Internal Combustion Engines 2. Flow and Combustion Diagnostics in IC Engines	• Professor emeritus of Tokyo Tech • President of "Institute of Technologists"	combustion and emissions in diesel engines, characterization of diesel soot particles in exhaust
Ken Okazaki		http://www.mech.titech.ac.jp/~epl/eplhomejp.html	Future Power Train for Sustainable Community	Department of Mechanical and Control Engineering	Thermal Engineering for Highly Efficient Use of Energy and Environmental Protection Advanced Coal and biomass technology for the Protection of Global Environment Sequestration of CO2 in Ocean for Mitigating Global Warming Clean and high efficiency energy
Ichiro Hagiwara		http://www.mech.titech.ac.jp/~h-souzou/professor/prof_index3.html	Basics of CAD	Department of mechanical Sciences and Engineering	Collaboration engineering, Safety engineering, Computational mechanics, Vibration/acoustical engineering, CG, CAD/CAM/CAE
Itsuro Kajiwara		http://www.mech.titech.ac.jp/~dosekkei/kajiwara/index.htm	Basics of CAE	Department of Mechanical and Aerospace Engineering Structural Dynamics Design Laboratory	Micro-Airplane Optimum Design of Structure and Control System Design of Mechanism and Control System for Smart Structure Motion and Vibration Control for Smart Flexible-Link Mechanism

Kiyomichi Araki		http://www.mobile.ee.titech.ac.jp/index.html	3.2 Wireless Communication Engineering	Electrical and Electronic Engineering	<ol style="list-style-type: none"> 1.MIMO Mesh Network 2.MIMO schemes for cellular network 3.Future of Software Defined Radi 4.UWB
Yoshinori Sakai		http://www.net.ss.titech.ac.jp/	3.3 Information Communication Network	Communications and Integrated Systems	Information Communication Network, Image Information Search, Image Signal Processing
Katsunori Yamaoka		http://www.net.ss.titech.ac.jp/~yamaoka/profile-e.html	3.3 Information Communication Network	Electrical and Electronic Engineering	Information Communication Network, Internet
Akinori Nishihara		Prof. Nishihara's Laboratory	4.1 Digital Signal Processing Theory	The Center for Research and Development of Educational Technology	<ol style="list-style-type: none"> 1. Design of Multidimensional Digital Filters and Its Application to Image Processing 2. Sports Training Aid Using Image Processing 3. Signal Processing for Hearing Aids
Takao Kobayashi		http://www.kbys.jp.titech.ac.jp	4.2 Speech and language processing	Information Processing	Speech Synthesis, Multimodal Human Interface, Human Motion Generation, Speech and Speaker Recognition, Speech and Speaker Recognition, Speech Analysis, Speech and Audio Signal Processing, Speech Coding, Digital Filter Design
Manabu Okumura		http://www.lr.pi.titech.ac.jp/~oku/index-e.html	4.2 Speech and language processing	Precision and Intelligence Laboratory	Incremental Language Understanding Model Automated Text Summarization Development of Communication Assistive Technology for People with Disabilities Animation Control through Natural Language Understanding, Web Text Mining
Yoshinori Hatori		www.hatori.ip.titech.ac.jp	4.3 Video Processing	Information Processing	<ol style="list-style-type: none"> 1. Visual communication system 2. Network human interface 3. High efficiency video coding
Takashi Ida		http://www.toshiba.co.jp/rdc/mmlab/index_e.htm	4.3 Video Processing	Information Processing	<ol style="list-style-type: none"> 1. Image recognition 2. Multimedia processing

Koji Takahashi		http://www.taka.ee.titech.ac.jp/index.html	6.1 Control Systems Theory	Electrical and Electronic engineering	<ol style="list-style-type: none"> 1. Discrete event systems control 2. Petri net application 3. Hybrid control
Yukio Kosugi		http://www-kosugi.pms.titech.ac.jp/eng/	6.2 Environment Control System	Mechano-Micro Engineering	Hyper spectral imagery data process using neural networks, Automatic processing of satellite data, Altitude image acquisition robot, Remote sensing for agriculture, Brain illness assessment by potential field measurement,
Shigeru Kakumoto		http://www.edm.bosai.go.jp/english/default.htm	6.2 Environment Control System	Mechano-Micro Engineering	Spatial temporal data handling and advanced GIS Information system for Disaster prevention and Local government Navigation system
Hirofumi Akagi		http://www.akg.ee.titech.ac.jp/	6.3 Power Electronics Systems	Electrical and Electronic Engineering	<ol style="list-style-type: none"> 1. Power Electronics 2. Power Engineering 3. Electric machines