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DR. ROYOL CHITRADON

EDUCATION

1991-1987

- Dr. rer nat in Informatics, Informatics Institute, Innsbruck University, AUSTRIA
Dissertation: Parallelization and Vectorization of a Finite Element Unsymmetric Equation Solver

1975 – 1979

- M.Sc. in Applied Mathematics, Mahidol University, THAILAND
Thesis: Maximum Flow Rate of BMA. Road Network, a Graph Approach

1972 – 1974

- B.Sc. in Mathematics, Prince of Songkhla University, THAILAND

PROFESSIONAL EXPERIENCE

2008

- Subcommittee of Water Resource Management Monitoring for Economic Stability, the Economy, Commerce, and Industry Commission, the Thailand Senate
- Counselor of the Special Committee Board for Water Resource Management Issues, the House of Representatives
- Committee and Secretariat of Thailand Water Challenge 2008, following the King's Initiatives
- Committee and Secretariat of the Director Board for the Project of Multifunctional Monkey Cheek in Sanamchai-Mahachai Canal, Bangkok and Samutsakorn Province, the Chaipattana Foundation
- Counselor of the Committee Board for Water Shortage Area Analysis, Department of Agricultural Extension, the Ministry of Agriculture and Cooperatives
- Steering Committee for the Study of Royal Films and Photographs in H.M.K. Bhumibol

Adulyadej

- Counselor of the Committee Board for the Water Conservation Youth Camp, the National Council on Social Welfare of Thailand, following the King's Initiatives

2007- Present

- Steering Committee for Water Situation Monitoring and Analysis in Suburb and Bangkok Areas in 2007, following the King's Initiatives
- Vice-Chairman of the Team for Multi-Functional Monkey Cheek Water Retention in Sanamchai-Mahachai Canal, Bangkok and Samutsakorn
- Subcommittee of Mitigation Plans for Water Shortages and Floods, the National Committee Board of Water Resources
- Steering Committee of both Government and Civil Society to Monitor the Government Work, the Royal Irrigation Department
- Committee of Director Board for Water Resource Management in the Suburban and Bangkok Areas, following the King's Initiatives
- Counselor of the Committee Board of Infrastructure, Communication, Public Transportation and Logistics in the Industries, the Federation of Thai Industries
- Committee of Technology Policy Development, the Thai Red Cross Society

2007-2008

- Member of the Water Law Drafting Commission
- Committee and Secretariat of Thailand Water Challenge, As the Celebrations on the Auspicious Occasion of His Majesty the King's 80th Birthday Anniversary, 5th December 2007
- Chairman of the Team for Techniques and Academic Issues of the Lab Operation, the Ministry of Science and Technology
- Chairman of Water Law Drafting Team, the Water Resource Subcommittee and the Committee of Natural Resources and Environment, the National Legislative Assembly, Thailand

2007

- Counselor of the 10th Conference on Nuclear Science and Technology
- Committee of Thailand Natural Resource Exhibition: Actual Public Gain

2006-2011

- Chairman of the Committee Board of Plant Genetic Conservation Project, following the King's Initiatives, Hydro and Agro Informatics Institute
- Committee of Plant Genetic Conservation Project, following Her Royal Highness Princess Maha Chakri Sirindhorn.

2006- Present

- Committee of the Director Board for Water Resource Management: Monkey Cheek Water Retention, Chaipattana Foundation
- Subcommittee for Land Use and Flood Prevention of the Water Resource Committee Board, the National Water Resource Committee Board
- Board of National Geoinformatics Committee
- Subcommittee of the Natural Resource and Environment Committee, the National Legislative Assembly, Thailand
- Counselor of the Water Resource Database, Rayong Province

2006-2008

- Counselor of Information Technology and Communication Development, Ministry of Public Health
- Subcommittee of Water Resources in Water Resource and Environment Committee Board, the National Legislative Assembly, Thailand

2006

- Committee and Secretariat Assistance of the 5th National Congress on Science and Technology

2005-2007

- Subcommittee of Information Technology System Improvement, Office of Auditor General

2004-Present

- Steering Committee of Thailand Refuse Disposal Technology Assessment (GITS)

2004-2007

- Counselor to the Director of Government Information Technology Services (GITS)

2004-2006

- Board of Plant Genetic Conservation project under the Royal Initiative of H.R.H Princess Maha Chakri Sirindhorn

2001- Present

- Steering Committee of Pacific Neighborhood Consortium

2001- 2003

- Representative of Thai Research Network of Asia-Pacific Advanced Network(APAN)

2004

- Chairman of Local Organizing Committee for AFITA/WCCA 2004

1998

- International Steering Committee of High Performance Computing Asia'98, SINGAPORE

1997

- International Steering Committee, High Performance Computing Asia'97, KOREA

1996

- Chairman of Computational Science and Engineering, University Consortium

1995

- International Steering Committee, High Performance Computing Asia'95, TAIWAN

AWARDS RECEIVED

2004

- Grand Companion (Third Class, higher grade) of the Most Illustrious Order of Chula Chom Klao

1997

- Knight Commander (Second Class) of the Most Exalted Order of the White Elephant

PATENT

2006

- Patent No. 20653: System and method for manipulating information and map for geographical resource management, issued on 6th October, 2006

SPECIAL PROJECTS AND RESEARCH

Present

- Data Grid
- Mobile Telemetry System
- Geographical Information Infrastructure

Past

- Reengineering PTT Lube-Oil Plant: A report presented to PTT Thailand. The study showed AS-IS functional model of Lube-Oil Plant by IDEF (IDentifying Functional modelling ICAM) method and TO-BE functional model for PTT. This study was regarded as the first step coming up to an Expert system of this organization.
- Gas Pipeline Simulation PTT Network: A report presented to PTT Thailand. The study showed the optimization method which could control the optimal pressure of gas network and the optimal operation of Paralleled Gas Pump System.
- Geographical Information System: GIS software development, GIS Simulation, Internet GIS
- Parallel and Vector Programming
- Shared Memory Parallel and Vector Computer
- Equation Solver for Linear and Non-Linear System, Directed Method
- In-Core and Out-of Core Equation Solver
- Optimization node numbering for a Finite Element System