GWEFR Cyf

Profile

Dewi Jones
Director

Background

Dewi is a Director and founder of GWEFR Cyf., an engineering consultancy that specialises in computer simulation of physical systems.

Before starting GWEFR in 2008, Dewi was a Reader at the University of Wales Bangor where his research included control systems applications, control of electrical and electromechanical devices, real-time parallel computation of control algorithms, vibration isolation for spacecraft, automated power line inspection and hydroelectric plant control. He has published over 100 papers in journals and conferences.

Dewi's academic research was strongly focused on industrial applications which included:
- Six years as a project manager for European Space Agency contracts;
- Two years of secondment as a Royal Society Industry Fellow with EA Technology Ltd;
- Extensive periods in Australia at the CSIRO Autonomous Systems Laboratory in Brisbane.

Dewi was also Director of the Applied Control Systems Unit at Bangor which carried out diverse industrial projects, including the development of instrumentation software, discrete-event simulation of a pathology laboratory and modelling environmental data using systems identification techniques.

He started his career as an Ionosphericist with the British Antarctic Survey and has also been a research engineer at GEC Marconi Research Centre, where he worked on control systems and computer simulation for various air defence projects.

Qualifications

Dewi graduated from the University of Wales in 1972 with a BSc degree in Electronic Engineering. He holds MSc and PhD degrees in control systems engineering and in 2002 was awarded the DSc (senior doctorate) degree by the University of Wales for his research. He is a Chartered Engineer, Fellow of the Institution of Engineering and Technology and a Senior Member of the Institute of Electrical and Electronics Engineers.

Capability

Dewi's individual expertise is in dynamic systems simulation using the industry-standard software *Matlab, Simulink, Stateflow and Real-Time Workshop*©. He has worked in mechatronics and robotics, real-time control, advanced control system design, instrumentation, visual servoing and image processing. His current projects are mainly for the electricity supply industry with a particular interest in modelling and simulation of renewable energy systems.

GWEFR is an engineering consultancy which specialises in mathematical modelling of dynamic systems, computer simulation (including real-time and hardware-in-the-loop), feedback control, instrumentation and servomechanisms.

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