



Prof Xiaohua Xia

Prof Xia is professor in die Departement Elektriëse, Elektroniese en Rekenaaringenieurswese. Hy is Direkteur van die Sentrum vir Nuwe Energiestelsels en Direkteur van die Nasionale Spil vir die Nagraadse Program in Energiedoeltreffendheid en Vraagkantbestuur.

Hy was akademies verbonde aan die Universiteit van Stuttgart in Duitsland, die École Centrale de Nantes in Frankryk en die Nasionale Universiteit van Singapoer voor hy in 1998 by die Universiteit van Pretoria aangesluit het. Prof Xia is 'n genoot van die internasionale Institute for Electronic and Electrical Engineers (IEEE), 'n genoot van die Suid-Afrikaanse Akademie vir Ingenieurswese (SAAI/SAAE) en lid van die Wetenskapsakademie van Suid-Afrika (ASSAf). Hy is as professionele ingenieur by die Ingenieursraad van Suid-Afrika (IRSA/ECSA) geregistreer en onderneem uitgebreide konsultasiedienste aan die ingenieursektor.

Prof Xia is 'n gesertifiseerde meet- en verifikasiekundige en is leier van die meet- en verifikasiespan van die Universiteit van Pretoria. Hy was 'n mederedakteur van *Automatica*, *IEEE transactions on circuits and systems II*, *IEEE transactions on automatic control* en spesialisredakteur (kontrole) van die *SAIEE Africa Research Journal*. Sy navorsingsbelangstellings is beheerstelsels en automatisering en, meer onlangs, die modellering en optimalisering van energiestelsels. Prof Xia het 'n A-gradering as navorser van die NNS ontvang.

Prof Xia is a professor in the Department of Electrical, Electronic and Computer Engineering, Director of the Centre of New Energy Systems and Director of the National Hub for the Postgraduate Programme in Energy Efficiency and Demand-side Management.

He was academically affiliated with the University of Stuttgart, Germany, the École Centrale de Nantes, France, and the National University of Singapore before joining the University of Pretoria in 1998. Prof Xia is a fellow of the Institute for Electronic and Electrical Engineers (IEEE), a fellow of the South African Academy of Engineering (SAAE), and a member of the Academy of Science of South Africa (ASSAf). He is a registered professional engineer with the Engineering Council of South Africa and consults extensively to the industry.

A certified measurement and verification professional, Prof Xia leads the measurement and verification team of the University of Pretoria. He has been an associate editor of *Automatica*, *IEEE transactions on circuits and systems II*, *IEEE transactions on automatic control*, and specialist editor (control) of the *SAIEE Africa Research Journal*. His research interests are control systems and automation, and more recently, the modelling and optimisation of energy systems. Prof Xia is an A-rated NRF researcher.

Prof Xia ke moprofesa ka Kgorong ya Boentsenere bja Mohlagase, Elektroniki le Dikhomputha. Molaodimogolo wa Senthara ya Mekgwa ye Meswa ya Enetši, le Molaodimogolo wa Lefelo (Hapo) la Bosetšhaba la Lenaneo la Dialoga tša dithuto tša godimo ka Bokgoni bja Enetši le Taolo ya Lehlakore-la-nyakego.

O be a šomišana ka tša thuto le University of Stuttgart, Germany, Ecole Centrale de Nantes, France, le National University of Singapore pele a thoma go šoma Yunibesithi ya Pretoria ka 1998. Prof Xia ke mogweramoleloko wa Institišhute ya Baentsenere ba Elektroniki le Mohlagase (IEEE), mogweramoleloko wa Akatemi ya Afrika-Borwa ya Boentsenere (SAAE), ebile ke leloko la Akatemi ya Saense ya Afrika-Borwa (ASSAf). Ke moentsenere wa profešenale yo a ngwadišitšwego le Lekgotla la Boentsenere la Afrika-Borwa ebile o hlankela intasteri ka bophara. Bjalo ka profešenale ya kgonthišišo le kelo ya tlišetšo, Prof Xia o eta pele sehlopha sa kgonthišišo le kelo sa Yunibesithi ya Pretoria, gomme o šoma bjalo ka modulasetulo wa Komiti ya Theknikhale ya Mekgwa ya go se latelane ya Mokgatlo wa Boditšhabatšhaba wa Taolo ya Boitiriši (IFAC).

O bile mothuša morulaganyi wa *Automatica*, *IEEE transactions on circuits and systems II*, *IEEE transactions on automatic control*, le morulaganyi wa setsebi sa go ikgetha (taolo) wa *SAIEE Africa Research Journal*. Dikgahlego tša gagwe tša dinyakišišo ke mekgwa ya taolo le ya boitiriši, gomme gabjale, ke go kaonafatša le go phethagatša mekgwa ya enetši. Ke monyakišiši wa maemo a A go tšwa go NRF.