





Prof Joubert is Medeprofessor in die Departement Bedryfs- en Sisteemingenieurswese van die Fakulteit Ingenieurswese, Bou-omgewing en Inligtingtegnologie. Die klem van die onderrig wat hy op beide voorgraadse en nagraadse vlak aanbied, val op operasionele navorsing. Hy het die optimaliseringsgroep gestig, wat hy ook bestuur, en waarvan die navorsing toegespits is op die ontwikkeling van meganismes om besluitneming deur regerings en industrie te ondersteun. Die kenmerkende eienskap van die groep is die vermoë om die jongste bruikbare en betroubare besluitnemingsmodelle te onttrek uit aktuele besigheidsprobleme en om daarvolgens oplossings te ontwikkel.

'n Hoogtepunt van sy loopbaan was die implementering van die eerste "multi-agent vervoersimulasietegnologie" in Suid-Afrika en die toepassing daarvan in Suid-Afrika in verskeie grootskaalse projekte. Dit sluit in die evaluering namens die Suid-Afrikaanse Nasionale Padagentskap (SANRAL) van tolvcrwante gedrag in die Gauteng Freeway Improvement Project, en die Integrated Planning and Development Modelling Project vir die WNNR.

Prof Joubert is 'n genoot van die program Mobility Cultures in Mega-cities wat deur die Instituut vir Mobiliteitsnavorsing (ifmo) geborg word – 'n navorsingsfasiliteit van die BMW-groep.

As sy belangrikste kollaboratiewe publikasies noem hy: "Inferring commercial vehicle activities in Gauteng, South Africa" in die *Journal of Transport Geography* en "A large-scale combined private car and commercial vehicle traffic simulation" in die *Transportation Research Record*.

Prof Joubert is as Professionele Ingenieur geregistreer by die Suid-Afrikaanse Raad vir Ingenieurswese (ECSA) en is lid van die Suid-Afrikaanse Instituut vir Bedryfsingenieurswese (SAIBI) en die Vereniging vir Operasionele Navorsing van Suid-Afrika (ORSSA). Hy het 'n Y2-gradering van die NNS.

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Prof Joubert is an Associate Professor in the Department of Industrial and Systems Engineering in the Faculty of Engineering, Built Environment and Information Technology. His teaching emphasis is on operations research, both at undergraduate and postgraduate level. He has established and leads the optimisation group, whose research emphasis is on developing state-of-the-art decision support solutions for government and industry. The identity of the group centres on the ability to extract useful and reliable models from real business problems and to develop solutions accordingly.

A highlight of his career has been the implementation of the first "multi-agent transport simulation technology" in South Africa and the application of this technology in several large-scale projects. These include the evaluation of toll-related behaviour in the Gauteng Freeway Improvement Project for the South African National Roads Agency (SANRAL), and the Integrated Planning and Development Modelling Project for the CSIR.

Prof Joubert is a Fellow of the Mobility Cultures in Mega-cities Programme sponsored by the Institute for Mobility Research (ifmo), a research facility of the BMW Group.

He cites as some of his most important collaborative publishing work: 'Inferring commercial vehicle activities in Gauteng, South Africa' in the *Journal of Transport Geography* and 'A large-scale combined private car and commercial vehicle traffic simulation' published in the *Transportation Research Record*.

Prof Joubert is registered with the Engineering Council of South Africa (ECSA) as a Professional Engineer and is a member of the South African Institute for Industrial Engineering (SAIIE) and the Operations Research Society of South Africa (ORSSA). He has a Y2-rating from the NRF.

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Prof Joubert ke mothušapofesa ka Kgorong ya Boentšenerere bja Intasteri le Disestemo Lefapheng la Boentšenerere, kago ya Tikologo le Theknolotši ya Tshedimošo. Go ruta ga gagwe go gateletše kudu mo go dinyakišišo tša mokgwa wa tšhomo mo maemong a bobedi a tikrii ya mathomo le a tikrii ya bobedi. O hlomile ebile o etile pele sehlopha sa go dira dibotse seo dinyakišišo tša sona di gatelelago kudu mo go hlabolleng ditharollo tša thekgo tša maemo a godimo tša mmušo le intasteri. Boitsebišo bja sehlopha bo itheile go bokgoni bja go ntšha dimmotlolo tše bohlokwa tša go tšhepega go tšwa mathateng a nnete a kgwebo le go tla ka ditharollo ka mo go swanetšeng.

Ntlhakgolo ya mošomo wa gagwe e bile go tšentsha tirišong ya seo se bitšwago "*multi-agent transport simulation technology*" ya mathomo ka Afrika-Borwa le tirišo ya theknolotši ka diprotšekeng tšeo di nabilego. Tše di akaretša tekanyo ya maitshwara a go amana le ditholekeiti ka Protšekeng ya Kaonafatso ya Ditsela tša Maphefo ka Gauteng ya Lekala la Ditsela tša Bosetšhaba tša Afrika-Borwa (SANRAL) le Protšeke ya Motlelo wa Tlhabollo le Peakanyo yeo e Logagantšwego ya CSIR.

Prof Joubert ke molelokomogwera wa Lenaneo la *Mobility Cultures in Mega-cities* yeo e thekgwago ke *Institute for Mobility Research (ifmo)*, e lego lekala la dinyakišišo la ba ga *BMW Group*.

O tšopola se go ba mošomo wa tšhomommogo wo o phatlaladišwego wa bohlokwahlokwa: "*Inferring commercial vehicle activities in Gauteng, South Africa*" ka go *Journal of Transport Geography* le "*A large-scale combined private car and commercial vehicle traffic simulation*" yeo e phatlaladišwego ka go *Transportation Research Record*.

Prof Joubert o ingwaditše le Khansele ya Boraentšenerere ya Afrika-Borwa bjalo ka moentšenerere wa profešenale ebile ke lelolo a *South African Institute for Industrial Engineering (SAIIE)* le *Operations Research Society of South Africa (ORSSA)*. O na le maemo a Y2 go tšwa go NRF.