

CURRICULUM VITAE

PERSONALIA

Naam: Verkeyn
Voornamen: Andy Albert Alfons
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WWW: <http://www.verkeyn.net>
Geboortedatum: 31 Maart 1975
Geboorteplaats: Roeselare
Nationaliteit: Belg
Burgerlijke stand: Ongehuwd
Rijbewijs: B



OPLEIDING

Algemeen Hoger Secundair - Afdeling Wiskunde (6 u.) - Wetenschappen
Sint-Jozefsinstituut Torhout - 1992 - 1993

Licentiaat in de Toegepaste Informatica - onderscheiding
Universiteit Gent - academiejaar 1996 - 1997
Thesis: *Een generieke, objectgeoriënteerde bibliotheek voor databanktransacties (C++)*
Promotor: Prof.Dr.Ir. H. Tromp

Geaggregeerde voor het Onderwijs in de Informatica (groep 2) - onderscheiding
Universiteit Gent - academiejaar 1996 - 1997

Doctor in de Toegepaste Wetenschappen
Universiteit Gent - academiejaar 2003 - 2004
Thesis: *Introdectie van vaagheid in geluidshindermodellen (Engels)*
Promotoren: Prof.Dr.Ir. D. Botteldooren en Prof.Dr. R. De Caluwe

GETUIGSCHRIFTEN

Brevet van Eerstehulpverlener
Rode Kruis Afdeling Gent - 1999, 2004 (geldig tot 2009)

Doctoraatsopleiding in de toegepaste wetenschappen
Universiteit Gent - academiejaar 2001 - 2002

Cursus Frans (30 uur)
Taaltrainingen Campus, Bosstraat 95, 9810 Nazareth - 21/01/2006 - 18/02/2006
Evaluatie: Europees Niveau B1 (Zelfstandige gebruiker)

INFORMATICA CERTIFICATEN

Sun Certified Java Programmer (SCJP)
Sun Microsystems - August 2005

Sun Certified Web Component Developer (SCWCD)
Sun Microsystems - Oktober 2006

Microsoft Certified Professional - Analyzing Requirements and Designing .NET Solutions
Microsoft - Mei 2008

ScrumAlliance Certified Scrum Master (SCSM)
ScrumAlliance - November 2008

Sun Certified Business Component Developer (SCBCD)
Sun Microsystems – Februari 2010

LOOPBAAN

- | | |
|-------------------|---|
| 10/1997 - 11/2004 | Assistent / Doctorandus
Universiteit Gent, Vakgroep Informatietechnologie, Sint-Pietersnieuwstraat 41, 9000 Gent
Assistent voor vakken rond softwareontwikkeling, gecombineerd met onderzoek naar toepassingen van vaaglogica en regelgebaseerde systemen in het modelleren van geluidshinder. Dit onderzoek resulteerde in mijn doctoraat en in 26 publicaties waaronder 4 artikels in internationale tijdschriften (in Web of Science) en 4 hoofdstukken in boeken. |
| 12/2004 - 06/2008 | Project Consultant / Lesgever
Devoteam (vroegere Guidance)
Buro & Design Center Box 62, Heysel Esplanade, 1020 Brussel
Diverse consultancy projecten als functioneel en technisch analist, o.a. Critical Care Company (bedreservatiesysteem), Digipolis Antwerpen (bevolkingstoepassing) en Fluxys (Facturatiesysteem). |
| 07/2008 - heden | Software Engineer Special Engines
Fluxys NV
Kunstlaan 31, 1000 Brussel
Analyse, ontwerp, implementatie (C++), testen en documenteren van diverse kerntoepassingen binnen Fluxys, o.a. capaciteit van het netwerk controleren, gasstromen in het netwerk balanceren en optimaliseren,... |

ONDERWIJSERVARING

- November 1996 Stage tijdens aggregatieopleiding als leraar informatica (6de T.S.O.)
- Juni 1998 Begeleiden programmeeroefeningen Java IT-opleiding Belgacom personeel
 Instituut Voor Permanente Vorming (IVPV), Universiteit Gent
- 10/1998 - 06/2004 Verzorgen van oefeninglessen als assistent in de opleidingen licentie
 informatica en burgerlijk ingenieur computerwetenschappen
 Universteit Gent, Vakgroep Informatietechnologie
- *Programmeren II* (C/inleiding C++) (tot en met 2001-2002)
 - *Software-ontwikkeling en objectgeoriënteerde talen I* (C++, STL)
 - *Software-ontwikkeling en objectgeoriënteerde talen I* (Java, C/S concepten)
 - *Objectgeoriënteerde analyse* (UML)
- 12/2004 - 06/2008 Aanmaken en doceren van de Guidance cursussen omtrent
- OO, business modellering (use cases), analyse en ontwerp, ontwerp patronen, UML, RUP,... (2 cursussen)
 - Java: JavaBeans, AWT/Swing, CORBA/RMI, JDBC (naar MS-Access/MySQL), XML (SAX/DOM/JDOM/TRaX), Servlets/JSP, J2EE principes (4 cursussen)
- Klanten zijn o.a. ING, State Street Bank, Euroclear, Unisys, Xerox, RIZIV, Beaver IT-Services (nu USG-Innotiv),...

REFERENTIES

- Prof.Dr.Ir. Dick Botteldooren (promotor), dick.botteldooren@intec.ugent.be
Universiteit Gent - Vakgroep Informatietechnologie, Sint-Pietersnieuwstraat 41, 9000 Gent
- Steven Thiers (projectleider Digipolis Antwerpen), steven.thiers@digipolis.be
Digipolis Antwerpen, Generaal Armstrongweg 1, 2020 Antwerpen
- Eli Destoop (manager Solutions Department Devoteam), eli.destoop@devoteam.com
Devoteam N.V., Buro & Design Center Box 62, Heysel Esplanade, 1020 Brussel

TALENKENNIS

Nederlands:	Moedertaal
Engels:	Vlotte gebruiker
Frans:	Zelfstandige gebruiker
Duits	Basisgebruiker

HOBBY'S

Muziek beluisteren, lezen (non-fiction), reizen

PUBLICATIES

PUBLICATIES IN INTERNATIONALE TIJDSCHRIFTEN OPGENOMEN IN DE SCIENCE CITATION INDEX (a1)

- [1] D. Botteldooren, A. Verkeyn, C. Cornelis, M. De Cock, *On the meaning of noise annoyance modifiers: a fuzzy set theoretical approach*, Acta Acustica united with Acustica, 88 (2), 2002, 239-251
- [2] D. Botteldooren, A. Verkeyn, *Fuzzy models for accumulation of reported community noise annoyance from combined source*, Journal of the Acoustical Society of America, 112 (4), 2002, 1496-1508
- [3] A. Verkeyn, D. Botteldooren, B. De Baets, G. De Tre, *Sugeno integrals for the modelling of noise annoyance aggregation*, Fuzzy Sets and Systems: State-of-the-Art Anno 2003, T. Bilgic, B. De Baets, O. Kaynak (eds), Lecture Notes in Computer Science - Lecture notes in Artificial Intelligence 2715, Springer-Verlag, 2003, 277-284
- [4] D. Botteldooren, A. Verkeyn, P. Lercher, *A fuzzy rule based framework for noise annoyance modelling*, Journal of the Acoustical Society of America, 114 (3), 2003, 1487-1498
- [5] A. Verkeyn, D. Botteldooren, B. De Baets, *Genetic learning of fuzzy integrals accumulating human reported environmental stress*, Applied Soft Computing Journal, 2009

PUBLICATIES IN ANDERE INTERNATIONALE TIJDSCHRIFTEN (a2)

- [1] D. Botteldooren, A. Verkeyn, P. Lercher, *Noise annoyance modeling using fuzzy rule based systems*, Journal of Noise and Health, 15 (4), 2002, 27-44 (see b2 [3])

PUBLICATIES IN BOEKEN (b2)

- [1] A. Verkeyn, D. Botteldooren, *Annoyance prediction with fuzzy rule bases*, In: *Computational Intelligent Systems for Applied Research*, D. Ruan, P. D'hondt, E. Kerre (eds.), World Scientific Publishers, 2002, 411-418, ISBN: 981-238-066-3
- [2] A. Verkeyn, M. De Cock, D. Botteldooren, E. E. Kerre, *Generating membership functions for a noise annoyance model from experimental data*, In: *Studies in Fuzziness and Soft computing: Soft computing in measurement and information acquisition (Vol. 127)*, L. Reznik, V. Kreinovich (eds), Springer-Verlag, 2003, 51-67, ISBN: 3-540-00246-4
- [3] D. Botteldooren, A. Verkeyn, P. Lercher, *Noise annoyance modeling using fuzzy rule based systems*, In: *Noise pollution and Health*, D. Prasher (eds), Noise Research Network Publications, London, 2003, ISBN: 1-901747-02-6 (see a2 [1])
- [4] T. De Muer, A. Verkeyn, D. Botteldooren, *Noise annoyance mapping*, In: *Spatio-Temporal Databases: Flexible Querying and Reasoning*, R. De Caluwe, G. De Tré, G. Bordogna (eds), Springer-Verlag, 2004, 369-392, ISBN: 3-540-22214-6

PUBLICATIES IN PROCEEDINGS WETENSCHAPPELIJKE CONFERENTIES (c1)

- [1] D. Botteldooren and A. Verkeyn, *Using approximate reasoning techniques to model noise annoyance*, Proceedings of the International Congress on Noise Control Engineering (Internoise) 99, Florida, USA, Dec. 1999, 1351-1356
- [2] D. Botteldooren, A. Verkeyn, P. Lercher, *Extracting linguistic rules to model community traffic noise annoyance*, Proceedings of the International Congress on Noise Control Engineering (Internoise) 2000, Nice, France, Aug. 2000, 2302-2307 (on CD-ROM)
- [3] A. Verkeyn, *A fuzzy approach to the modeling of traffic noise annoyance*, Proceedings of the first Ph.D. symposium at the Faculty of Engineering (Ghent University), Ghent, Belgium, Dec. 2000, (on CD-ROM, paper 5)

- [4] D. Botteldooren, A. Verkeyn, P. Lercher, *What can classical and fuzzy concepts contribute to the analysis of masking effects in environmental noise surveys?*, Proceedings Conference on Noise Control Engineering (NoiseCon) 2000, California, USA, Dec. 2000 (on CD-ROM)
- [5] A. Verkeyn, D. Botteldooren, G. De Tre, R. De Caluwe, *Fuzzy modeling of traffic noise annoyance*, Proceedings of the joint 9th IFSA World Congress and 20th NAFIPS International Conference, Vancouver, Canada, Jul. 2001, 1176-1181 (and CD-ROM)
- [6] G. De Tre, A. Verkeyn, R. De Caluwe, *The application of level-2 fuzzy sets in fuzzy and uncertain data modeling*, Proceedings of the joint 9th IFSA World Congress and 20th NAFIPS International Conference, Vancouver, Canada, Jul. 2001, 2329-2334 (and CD-ROM)
- [7] D. Botteldooren, A. Verkeyn, P. Lercher, *How can classical analysis and fuzzy modeling help us find out how road noise modifies people's reaction to railway noise?*, Proceeding of the International Congress on Noise Control Engineering (Internoise) 2001, The Hague, The Netherlands, Aug. 2001 (on CD-ROM, paper 591)
- [8] D. Botteldooren, A. Verkeyn, P. Lercher, *How can we distinguish exposure and expectation effects in integrated soundscape analyses?*, Proceedings of the 17th International Congress on Acoustics (ICA) 2001, Rome, Italy, Sep. 2001 (on CD-ROM)
- [9] D. Botteldooren, A. Verkeyn, *An iterative fuzzy model for cognitive processes involved in environment quality judgement*, Proceedings of the IEEE World Congress on Computational Intelligence (WCCI) 2002, Honolulu, Hawaii, USA, May 2002, 1057-1062 (and CD-ROM, paper 4116)
- [10] A. Verkeyn, D. Botteldooren, *Towards language independent models based on survey data*, Proceedings of the IEEE World Congress on Computational Intelligence (WCCI) 2002, Honolulu, Hawaii, USA, May 2002, 1063-1068 (and CD-ROM, paper 4117)
- [11] D. Botteldooren, A. Verkeyn, *Aggregation of specific noise annoyance to a general noise annoyance rating: a fuzzy model*, Proceedings of the 9th International Congress on Sound and Vibration, Orlando, Florida, USA, Jul. 2002 (on CD-ROM)
- [12] A. Verkeyn, D. Botteldooren, *The effect of land-use variables in a fuzzy rule based model for noise annoyance*, Proceedings of the 31th International Congress on Noise Control Engineering (Internoise) 2002, Dearborn, Michigan, USA, Aug. 2002 (on CD-ROM, paper 371)
- [13] G. De Tre, A. Hallez, J. Verstraete, A. Verkeyn, *Beyond conjunctive aggregation of possibilistic truth values in database systems*, Proceedings of Eurofuse Workshop on Information Systems, Villa Monastero, Varenna, Italy, Sep. 2002, 137-142
- [14] A. Verkeyn, D. Botteldooren, B. De Baets, G. De Tre, *Modeling annoyance aggregation with Choquet integrals*, Proceedings of Eurofuse Workshop on Information Systems, Villa Monastero, Varenna, Italy, Sep. 2002, 259-264
- [15] D. Botteldooren, P. Lercher, A. Verkeyn, *Noise annoyance and coping: a soft analysis*, Proceedings of 8th International Congress on Noise as a Public Health problem, Rotterdam, The Netherlands, Jun. 2003, 288-289
- [16] A. Verkeyn, *Fuzzy modeling of noise annoyance*, Proceedings of the first Flanders Engineering Ph.D. Symposium, Brussels, Belgium, Dec. 2003 (on CD-ROM)
- [17] A. Verkeyn, D. Botteldooren, *Fuzzy translation tool for linguistic terms*, Proceedings of the IEEE International Conference on Fuzzy Systems, Budapest, Hungary, Jul. 2004 (on CD-ROM)
- [18] A. Verkeyn, D. Botteldooren, *Fuzzy performance measures for noise annoyance models*, Proceedings of the 4th International Conference on Intelligent System Design and Applications (ISDA), Budapest, Hungary, Aug. 2004 (on CD-ROM)
- [19] D. Botteldooren, A. Verkeyn, B. De Baets, P. Lercher, *Fuzzy Integrals as a Tool for Obtaining an Indicator for Quality of Life*, Proceedings of the IEEE World Congress on Computational Intelligence (WCCI) 2006, Vancouver, Canada, Jul. 2006

WETENSCHAPPELIJKE ACTIVITEITEN

INTERNATIONALE CONFERENTIES

- [1] *Fuzzy modeling of traffic noise annoyance*, Oral presentation at the joint 9th IFSA World Congress and 20th NAFIPS International Conference, Vancouver, Canada, Jul. 2001
- [2] *Towards language independent models based on survey data*, Oral presentation at the IEEE World Congress on Computational Intelligence (WCCI) 2002, Honolulu, Hawaii, USA, May 2002
- [3] Co-chair with D. Botteldooren, *Soft computing in Environment Applications* session (invited) at the 5th International Fuzzy Logic Intelligent technologies in Nuclear Science (FLINS) Conference on Computational Intelligent Systems for Applied Research, Het Pand, Ghent (Belgium), 16-18 Sep. 2002
- [4] *Annoyance prediction with fuzzy rule bases*, Oral presentation (invited) at the 5th International Fuzzy Logic Intelligent technologies in Nuclear Science (FLINS) Conference on Computational Intelligent Systems for Applied Research, Het Pand, Ghent, Belgium, Sep. 2002
- [5] *Modeling annoyance aggregation with Choquet integrals*, Oral presentation at the Eurofuse Workshop on Information Systems, Villa Monastero, Varenna, Italy, Sep. 2002
- [6] *Sugeno integrals for the modelling of noise annoyance aggregation*, Oral presentation at the 10th IFSA World Congress, Istanbul, Turkey, Jun. 2003
- [7] *Fuzzy translation tool for linguistic terms*, Oral presentation at the IEEE International Conference on Fuzzy Systems, Budapest, Hungary, Jul. 2004

NATIONALE CONFERENTIES

- [1] *A fuzzy approach to the modeling of traffic noise annoyance*, Poster at the first Ph.D. symposium at the Faculty of Engineering (Ghent University), Ghent, Belgium, Dec. 2000
- [2] *Fuzzy modeling of noise annoyance*, Poster at the first Flanders Engineering Ph.D. symposium, Brussels, Belgium, Dec. 2003

LEZINGEN AAN WETENSCHAPPELIJKE INSTELLINGEN

Een vaagmodel voor hinder door verkeerslawaai, voordracht op de ABAV Meeting, Belgian Acoustical Association, Kasteel van Colonster, Luik (Sart-Tilman), Belgium, 25 Mei 2000.

VERWORVEN KREDIETEN

- IEEE Neural Network Society Student travel grant, IEEE World Congress on Computational Intelligence (WCCI) 2002, Honolulu, Hawaii, May 2002: \$ 150 conference registration + 5 hotel nights
- IEEE Neural Network Society Student travel grant, IEEE International Conference on Fuzzy Systems, Budapest, Hungary, June 2004: \$ 500

BEGELEIDING SCRIPTIES

F. Goethals, *Ontwerp van een systeem voor online en offline interactie van studenten met een internetcursus*, 1999-2000 (tot het behalen van de academische graad van burgerlijk ingenieur in de computerwetenschappen)

DIENSTVERLENING

- Vertegenwoordiger van het OAP (Overig Academische Personeel) in de vakgroepraad (sinds okt. 1999).
- Interfacultaire Opleidingscommissie Informatica (IFOCD) (sinds okt. 2000)
- International Noise Control Engineering (INCE)/Europe (sinds jun. 2001)
- Institute of Electrical and Electronic Engineers (IEEE) (sinds feb. 2002)
- Reviewer van enkele artikels in internationale tijdschriften
 - Fuzzy sets and systems (2001: 1)
 - Journal of the Acoustical Society of America (2003: 1; 2004: 1)
 - IEEE Transactions on Systems, Man and Cybernetics (2004: 1)
 - International Journal of Artificial Intelligence Tools, special issue on Intelligent Tools for Problem Solving in Bioinformatics and Medicine (2005: 2)