

CURRICULUM VITAE

SURNAME AND NAME	T'KINDT Vincent
Home Address	
Phone number	
Fax number	
E-mail address	_____
Nationality	French
Birth date	

Academic Position

Qualification/Title	Full professor
University	University of Tours
Department	Polytechnique College of the University of Tours
Academic Field	Computer Science
Academic Discipline	Operations Research

Working experience

Dates (from .. to..)	From sept 2008 to now
Name and address of the Employer (Public or/and private institution/body)	University of Tours (France)
Position held (for positions in Universities, the candidate should indicate the Faculty/College/School and the Department)	Full professor in computer science at the Polytechnique College of the University of Tours
Main activities/responsibilities	<p>I only highlight six main activities.</p> <ul style="list-style-type: none"> • Head of the research group on Operations Research, Scheduling and Transportation at the Laboratory of Computer Science of the University of Tours. This group is also associated to the french CNRS as ERL 7002. • Chairman of the Organizing Committee of the 12th International Conference on Project Management and Scheduling (PMS), in 2010. • Vice-head of the department of computer science at the Polytechnique College of the University of Tours (France). • Member of the Program Committee of the “Multidisciplinary International Conference on Scheduling: Theory and Applications” series.

	<ul style="list-style-type: none"> • Member of the Scientific Committee of the “International Conference on Project Management and Scheduling” series. • Head of the international research master program on “Computer Aided Decision Support”, University of Tours.
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Dates (from .. to..)	From sept 2005 to aug 2008
Name and address of the Employer (Public or/and private institution/body)	University of Tours (France)
Position held (for positions in Universities, the candidate should indicate the Faculty/College/School and the Department)	Associate professor in computer science at the Polytechnique College of the University of Tours
Main activities/responsibilities	<p>I only highlight five main activities.</p> <ul style="list-style-type: none"> • Head of the research group on Scheduling at the Laboratory of Computer Science of the University of Tours. • Chairman of the Organizing Committee of the 7th International Conference on MultiObjective Programming and Goal Programming (MOPGP), in 2006. • Vice-head of the department of computer science at the Polytechnique College of the University of Tours (France). • Member of the Program Committee of the “Multidisciplinary International Conference on Scheduling: Theory and Applications” series. • Member of the Scientific Committee of the “International Conference on Project Management and Scheduling” series.

Dates (from .. to..)	From sept 1999 to aug 2005
Name and address of the Employer (Public or/and private institution/body)	University of Tours (France)
Position held (for positions in Universities, the candidate should indicate the Faculty/College/School and the Department)	Assistant professor in computer science at the Polytechnique College of the University of Tours
Main activities/responsibilities	<p>I only highlight four main activities.</p> <ul style="list-style-type: none"> • Co-funder and co-animator of the french national working group on multiobjective mathematical programming. • Head of the eOCEA project: an international web site for scheduling theory. • Co-chairman of the Organizing Committee of the 7th International Conference on MultiObjective Programming and Goal Programming (MOPGP).

	<ul style="list-style-type: none"> • Member of the Program Committee of the “Multidisciplinary International Conference on Scheduling: Theory and Applications” series.
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Education and Training

Date	9th november 2005
Institution which issued the degree	University of Tours (France)
Type of Degree awarded (only Bachelor’s Degree, Master of Science’s Degree, PhD)	Habilitation to Head Researchers (French HDR)

Date	6th december 1999
Institution which issued the degree	University of Tours (France)
Type of Degree awarded (only Bachelor’s Degree, Master of Science’s Degree, PhD)	PhD thesis in computer science (with honors)

Date	30rd september 1996
Institution which issued the degree	University of Tours (France)
Type of Degree awarded (only Bachelor’s Degree, Master of Science’s Degree, PhD)	Engineering degree in computer science (with honors)

EVALUATION FIELDS

1. Scientific Activity

SCIENTIFIC METRICS

Retrieved from Google Scholar:

- H-index: 18
- Number of citations: 1955

The mostly cited reference is my book on multicriteria scheduling (689 citations):

V. T'kindt, J.-C. Billaut. *Multicriteria Scheduling: Theory, Models and Algorithms*, 2nde edition, Springer, 2006.

The three most cited papers are:

- V. T'kindt, N. Monmarché, F. Tercinet, D. Laugt. *An ant colony optimization algorithm to solve a 2-machine bicriteria flowshop scheduling problem*, European Journal of Operational Research, 142(2):250-257, 2002. **242 citations.**
- V. T'kindt, J.-C. Billaut. *Multicriteria scheduling: a survey*, RAIRO Operations Research, 35(2):143-163, 2001. **91 citations.**
- F. Della Croce, V. T'kindt. *A recovering beam search algorithm for the one-machine dynamic total completion time scheduling problem*, Journal of the Operations Research Society, 53(11):1275-1280, 2002. **75 citations.**

MOST IMPORTANT OUTCOMES/RESULTS

Below are provided the three most important outcomes of my research activities.

Multicriteria optimization and scheduling.

Since 1996 and the beginning of my PhD thesis I worked on multicriteria optimization with application to the theory of scheduling. My researches have strongly contributed to the development of a theory of multicriteria scheduling by the design of new models, the proposal of new theoretical results as well as effective exact or heuristic algorithms for the solution of multicriteria scheduling problems. I published a comprehensive study of that field in a monography published by Springer ([TB06]). This book contributes to the literature by proposing a unified framework of results, models and algorithms for scheduling in the light of the knowledge issued from multicriteria optimization field.

On a more technical side, I proposed several very effective exact or heuristic algorithms for the computation of Pareto optima for multicriteria scheduling problems (e.g. [TDB07], [HLT12], [ET14], [DTB16]). I also studied the complexity of solving such problems by proposing new complexity classes, in the sense of complexity theory. This has led to enrich the definition of tractability for a computer when faced with multicriteria optimization problems (including scheduling, [TBE07]).

These research activities have positioned me as an international and reputed researcher in that field.

[DTB16] K. DEGHDAK, V. T'KINDT, J.-L. BOUQUARD. *Scheduling evacuation operations*, Journal of Scheduling, vol 19, n°4, pp. 467-478, 2016.

[ET14] D. ELVIKIS, V. T'KINDT. *Two-agent scheduling on uniform parallel machines with min-max criteria*, Annals of Operations Research, vol 213, pp. 79-94, 2014.

[HLT12] H. HOOGEVEEN, C. LENTE, V. T'KINDT. *Rescheduling for new orders on a single machine with setup times*, European Journal of Operational Research, vol 223, n°1, pp.40-46, 2012.

[TB06] V. T'KINDT, J.-C. BILLAUT. *Multicriteria scheduling: theory, models and algorithms*, Springer, 359p, 2nde edition, 2006.

[TBE07] V. T'KINDT, K. BOUIBEDE-HOCINE, C. ESSWEIN. *Counting and Enumeration complexity with application to Multicriteria Scheduling*, Annals of Operations Research, vol 153, pp. 215-234, 2007.

[TDB07] V. T'KINDT, F. DELLA CROCE, J-L. BOUQUARD. *Enumeration of Pareto optima for a flowshop scheduling problem with two criteria*, *Informatics Journal on Computing*, vol. 19, n°1, pp. 64-72, 2007.

Effective exact methods for solving large scheduling problems.

Scheduling problems are well recognized as hard problems to solve due to their strong combinatorial structure. Exact algorithms solving such NP-hard problems have a time complexity which is exponential in the size of the solved instances, *i.e.* the number of jobs to schedule. By the way, the exact algorithms proposed in the literature are often only capable of solving instances with up to a dozen or a hundreds of jobs in size. One important focus of my researches relates to the proposal of exact algorithms capable of solving instances with thousands of jobs in size. This long lasting scientific lock has been broken for several NP-hard scheduling problems by providing very effective exact algorithms exploiting mathematical programming techniques like preprocessing techniques (*e.g.* [BDGT10], [TDB07]), constraints generation approaches (*e.g.* [DKT17]) or memorization approaches (*e.g.* [STD17]). These promising techniques are still being developed for other NP-hard optimization problems.

[BDGT10] P. BAPTISTE, F. DELLA CROCE, A. GROSSO, V. T'KINDT. *Sequencing a single machine with due dates and deadlines: An ILP-based approach*, *Journal of Scheduling*, vol. 13, n°1, pp. 39-47, 2010.

[DKT17] F. DELLA CROCE, C. KOULAMAS, V. T'KINDT. *A constraint generation approach for two-machine shop problems with jobs selection*, *European Journal of Operational Research*, vol 259, n°3, pp 898-905, 2017.

[STD17] L. SHANG, V. T'KINDT, F. DELLA CROCE. *Exact solution of the single machine total tardiness scheduling problem: the power of memorization*, *International Conference on Industrial Engineering and System Management (IESM'17)*, Saarbrücken (Germany), 11-13 October, 2017.

[TDB07] V. T'KINDT, F. DELLA CROCE, J-L. BOUQUARD. *Enumeration of Pareto optima for a flowshop scheduling problem with two criteria*, *Informatics Journal on Computing*, vol. 19, n°1, pp. 64-72, 2007.

Complexity theory and scheduling.

One other major contribution of my researches relates to the field of complexity theory with applications to scheduling theory. First, I studied the complexity of solving multiobjective scheduling problems and I have shown that complexity classes were missing in the literature to classify such problems. I proposed a survey of counting and generation problems and provided a picture of the world of the ENP complexity class. I have also shown that there exists some NP-complete problems within that class and some refined complexity statuses have been provided for multiobjective scheduling problems (*e.g.* [TBE07]).

Beyond problems complexity, I focused on algorithms complexity by studying the worst-case complexity of exact exponential algorithms for the solution of NP-hard problems. Given such a problem, the goal is to establish exact exponential-time algorithms for which a smallest as possible upper bound on the worst-case complexity can be obtained. Together with co-authors, we were among the first to provide such results for scheduling problems, so opening a new exciting research direction (*e.g.* [LLST13], [SLLT18], [ST18], [TSD18]).

In collaboration with Pr. F. Della Croce and Dr. R. Scatamacchia (Politecnico di Torino, Italy), I recently started to work on the design and analysis of approximation algorithms by means of mathematical programming, with application to scheduling problems (*e.g.* [SGDT17], [DST18]).

[DST18] F. DELLA CROCE, R. SCATAMACCHIA, V. T'KINDT. *A tight linear time 13/12-approximation algorithm for the P2||Cmax problem*, 16th *International Symposium on Combinatorial Optimization (ISCO 18)*, Marrakesh (Morocco), 11-13 April 2018.

[LLST13] C. LENTE, M. LIEDLOFF, A. SOUKHAL, V. T'KINDT. *On an extension of the Sort & Search method with application to scheduling theory*, *Theoretical Computer Science*, vol 511, pp. 13-22, 2013.

[ST18] L. SHANG, V. T'KINDT. *A Sort&Search method for multicriteria optimization problems with applications to scheduling theory*, *Journal of Multi-Criteria Decision Analysis*, *submitted*, 2018.

[SLLT18] L. SHANG, C. LENTE, M. LIEDLOFF, V. T'KINDT. *Exact exponential time algorithms for 3-machine flowshop scheduling problems*, *Journal of Scheduling*, vol 21, n°2, pp. 227-233, 2018.

[SGDT17] L. SHANG, M. GARRAFFA, F. DELLA CROCE, V. T'KINDT. Merging nodes in search trees: an exact exponential algorithm for the single machine total tardiness scheduling problems, 12th International Symposium on Parametrized and Exact Computation (IPEC 17), 12 pages, Viena (Austria), 4-8 Septembre 2017.

[TSD18] V. T'KINDT, L. SHANG, F. DELLA CROCE. *Exponential time algorithms for just-in-time scheduling problems with a common due date*, Journal of Scheduling, *submitted*, 2018.

[TBE07] V. T'KINDT, K. BOUIBEDE-HOCINE, C. ESSWEIN. *Counting and Enumeration complexity with application to Multicriteria Scheduling*, Annals of Operations Research, vol 153, pp. 215-234, 2007.

SELECTED PUBLICATIONS

Below are provided a selection of 20 publications in international reviewed journals, including a brief description of my main contributions. These publications which do not include those presented above, are sorted by alphabetical order of the authors. The complete list of my publications and communications are provided in the appendix of this CV.

- 1) ATAHARAN, C. LENTE, V. T'KINDT. *A multicriteria dial-a-ride problem with an ecological measure and heterogeneous vehicles*, Journal of Multicriteria Decision Analysis vol 21, n°5-6, pp. 279-298, 2014.

Contributions: in this publication we focus on the design of heuristic algorithms for the enumeration of Pareto optima for an innovative on-demand transportation problem. My contribution is on the model design and the algorithms proposal.

- 2) R. BELAID, V. T'KINDT, C. ESSWEIN. *Scheduling batches in flowshop with buffers in the shampoo industry*, European Journal of Operational Research, vol 223, n°2, pp. 560-572, 2012.

Contributions: in this publication we focus on the design of heuristic algorithms for the solution of a scheduling problem occurring in shampoo production system. This problem was issued from an industrial collaboration. My contribution was on the model design and the algorithms proposal.

- 3) M. DARWICHE, D. CONTE, R. RAVEAUX, V. T'KINDT. *A local branching heuristic for solving a graph edit distance problem*, Computers & Operations Research, in press, 2018, <https://doi.org/10.1016/j.cor.2018.02.002>.

Contributions: in this publication we studied a problem arising in the context of pattern recognition where two objects have to be matched to decide if they are the same or not. My contribution was on the design of the local branching heuristic so that it outperforms the state-of-the-art heuristics.

- 4) K. DEGHDAK, V. T'KINDT, J.-L. BOUQUARD. *Scheduling evacuation operations*, Journal of Scheduling, vol 19, n°4, pp. 467-478, 2016.

Contributions: in this publication we studied a problem arising in the context of people evacuation in case of a natural disaster. My contribution was on the model design and the proposal of effective algorithms for planning the evacuation of a town.

- 5) F. DELLA CROCE, V. T'KINDT. *Improving the preemptive bound for the single machine dynamic maximum lateness problem*, Operations Research Letters, vol. 38, n°10, 2010.

Contributions: in this publication we improved a well-known and state-of-the-art lower bound for a classic scheduling problem. My contribution was on the design of the lower bound and on its coding and testing.

- 6) F. DELLA CROCE, J.-C. BILLAUT, F. SALASSA, V. T'KINDT. *No-idle, No-wait: when shop scheduling meets dominoes, Eulerian and Hamiltonian paths*, Journal of Scheduling, in press, 2018, <https://link.springer.com/article/10.1007/s10951-018-0562-4>.

Contributions: in this publication we provided some theoretical links between particular shop scheduling problems and dominoes game. My contribution was on the links between flowshop problems and dominoes with the proposal of polynomial time exact algorithms.

- 7) F. DELLA CROCE, C. KOULAMAS, V. T'KINDT. *Minimizing the number of tardy jobs in two-machine settings with common due date*, Journal of Combinatorial Optimization, vol 34, n°1, pp. 133-140, 2017.

Contributions: in this publication we studied some shop scheduling problems in which the goal is to minimize the number of tardy jobs in the presence of a common due date. My contribution was on the proposal of algorithms with performance guarantee.

- 8) F. DELLA CROCE, F. SALASSA, V. T'KINDT. *A hybrid heuristic approach for single machine scheduling with release times*, Computers & Operations Research, vol 45, pp. 7-11, 2014.

Contributions: in this publication we studied a classic single machine scheduling problem for which we proposed an innovative heuristic approach. My contribution was on the design of the heuristic.

- 9) D. ELVIKIS, V. T'KINDT. *Two-agent scheduling on uniform parallel machines with min-max criteria*, Annals of Operations Research, vol 213, pp. 79-94, 2014.

Contributions: in this publication we studied a scheduling problem where two agents are competing for the scheduling of jobs on uniform parallel machines. My contribution was on the proposal of a fast polynomial time algorithm for solving this problem optimally.

- 10) D. ELVIKIS, H. HAMACHER, V. T'KINDT. *Scheduling two interfering job sets on uniform parallel machines with makespan and cost functions*, Journal of Scheduling, vol 14, n°5, pp. 471-481, 2011.

Contributions: in this publication we studied a scheduling problem where two agents are competing for the scheduling of jobs on uniform parallel machines. My contribution was on the model design and the proposal of new exact algorithms.

- 11) ESTEVE, C. AUBIJOUX, A. CHARTIER, V. T'KINDT. *A Recovering Beam Search algorithm for the single machine Just-in-Time scheduling problem*, European Journal of Operational Research, vol. 172, n°3, pp. 798-813, 2006.

Contributions: in this publication we studied a Just-in-Time scheduling problem under the angle of multicriteria optimization. My contribution was on the model design and the proposal of the RBS heuristic.

- 12) M. GOERIGK, K. DEGHDAK, V. T'KINDT. *A Two-Stage Robustness Approach to Evacuation Planning with Buses*, Transportation Research: Part B, vol 78, pp. 66-82, 2015

Contributions: in this publication we studied a transportation problem occurring in the context of people evacuation in case of a natural disaster. My contribution was on the proposal of new exact robust algorithms.

- 13) H. HOOGEVEEN, V. T'KINDT. *Minimizing the number of late jobs when the start time of the machine is variable*, Operations Research Letters, vol 40, n°5, pp. 353-355, 2012.

Contributions: in this publication we studied a single machine scheduling problem where the goal is to minimize the number of tardy jobs. My contribution was on the proposal of new fast exact algorithm.

- 14) J. KANET, F. DELLA CROCE, C. KOULAMAS, V. T'KINDT. *Erratum: One Machine Sequencing to Minimize Total Tardiness: A fourth Theorem for Emmons*, Operations Research, n°63, vol 2, pp.351-352, 2015.

Contributions: in this publication we elaborate upon an existing publication in Operations Research journal and show that the proposed results were less theoretically effective than existing results. My contribution was on the study of the links between the existing results and the proposed results.

- 15) MOCQUILLON, C. LENTE, V. T'KINDT. *An efficient heuristic for medium-term planning in shampoo production*, International Journal of Production Economics, vol. 129, n°1, pp. 178-185, 2011.

Contributions: in this publication we studied a scheduling problem occurring a shampoo production system. This problem is issued from an industrial collaboration. My contribution was on the model design and the proposal of heuristic algorithms applicable in the industrial setting.

- 16) M.A. RAKROUKI, T. LADHARI, V. T'KINDT. *Coupling Genetic Local Search and Recovering Beam Search algorithms for the dynamic single machine scheduling problem with total completion time*, Computers & Operations Research, vol 39, n°6, pp. 1257-1264, 2012.

Contributions: in this publication we studied a classic single machine scheduling problem for which we proposed an innovative hybrid heuristic. My contribution was on the design of the heuristic.

- 17) X. TANG, A. SOUKHAL, V. T'KINDT. *Preprocessing for a map sectorization problem by means of mathematical programming*, Annals of Operations Research, vol 222, pp. 551-569, 2014.

Contributions: in this publication we studied a map sectorization problem involving the minimization of several criteria. My contribution was on the model design and the proposal of multicriteria heuristics.

- 18) V. T'KINDT. *Multicriteria Models for Just-in-Time Scheduling*, International Journal of Production Research, vol 49, n°1, pp. 3191-3209, 2011.

Contributions: in this publication I revisited Just-in-Time scheduling problems in light of multicriteria optimization, showing that most of the tackled problems in the literature are irrelevant with respect to Just-in-Time principles. I also proposed relevant scheduling problems that must be considered.

- 19) V. T'KINDT, F. DELLA CROCE, C. ESSWEIN. *Revisiting Branch and Bound search strategies for machine scheduling problems*, Journal of Scheduling, vol. 7, n°6, pp. 429-440, 2004.

Contributions: in this publication we investigate the influence of node dominance w.r.t. search strategies in exact branching based algorithms for scheduling problems. We show that eliminated dominated nodes can lead to serious improvements in these algorithms. My contribution was on the model aspect of the node dominance and the implementation and testings of the algorithms.

- 20) V. T'KINDT, N. MONMARCHE, F. TERCINET, D. LAUGT. *An Ant Colony Optimization Algorithm to Solve a 2-machine Bicriteria Flowshop Scheduling Problem*, European Journal of Operational Research, vol 142, n°2, pp. 250-257, 2002.

Contributions: in this publication we proposed an Ant Colony Optimization heuristic to solve a particular flowshop scheduling problem. By integrating original features from simulated annealing heuristics, the proposed heuristic is shown to outperform the state-of-the-art heuristics for this problem. My contribution was on the design of the heuristic.

2. Coordination of research and technology transfer groups and projects

RESEARCH GROUPS, PHD AND POST-DOC SUPERVISIONS

I have invested for a long time in national and international research groups which are listed below:

- Since 2007, I am the headmaster of the research group on Operations Research, Scheduling and Transportation from the Laboratory of Fundamental and Applied Computer Science (University of Tours). This group is since 2012 affiliated to the French CNRS.
- From 1999 to 2004, I have been the (co) funder and (co) animator of the French research group on MultiObjective Mathematical Programming (with Pr. X. Gandibleux from the University of Nantes, France). This group has been affiliated to the french association for OR (ROADEF) and the CNRS. Its aim is to animate the French community of researchers working on multiobjective programming.
- Since 2012, I am also member of the Advisory Board of the EURO Working Group on Project Management and Scheduling (PMS, <http://www.cs.put.poznan.pl/pms/>).

I have been the supervisor of several Ph.D. students (for each one I indicate the funding and co-supervisors):

- DARWICHE Mostafa (with Dr. R. Raveaux, Dr. D. Conte): grant from the French research ministry,
- SHANG Lei: grant from the French research ministry,
- Jlassi Aymen (with P. P. Martineau): granted by the CIFRE framework (partnership with a company),
- DEGHDAK Kaouthar (with Dr. J.-L. Bouquard): granted by the ANR project on evacuation,
- TANG Xin (with Pr. A. Soukhal): granted by the CIFRE framework (partnership with a company),
- ATHARAN Ahmed (with Dr. C. Lenté): granted by the CIFRE framework (partnership with a company),
- BELAID Rabah: granted by the CIFRE framework (partnership with a company),
- MOCQUILLON Cédric: granted by the CIFRE framework (partnership with a company),
- BOUIBEDE-HOCINE karima: own funding,
- ESTEVE Bertrand: own funding.

I have been also the supervisor of the Post-Doc of Dr. Afshin MANSOURI in 2005, who came from Amirkabir University of Technology (Iran). He is now full professor at Brunel Business School (UK).

RESEARCH PROJECTS

I have been involved in numerous national and international research projects. I only mention below the most important ones, *i.e.* those in which I have the Principal Investigator (PI) or at the origin of its set up:

- TRADE project (PI): funded by the French region “Centre Val de Loire” from 2011 to 2013, this project was about the development of new algorithms for the on-demand transportation problem with application to the region. Received funds: 190k€.
- DSS EVAC LOGISTIQUE: This international project was in collaboration, notably, with the University of Kaiserslautern (Pr. H. Hamacher). For the French consortium, it was funded by the French ANR agency (received funds: 1.6M€) from 2012 to 2015. I was, with Pr. Hamacher at the

origin of the project that we set up in addition with Pr. E. Néron from my university. The latter has been the coordinator of the French consortium while I was responsible of one work package of the project. This project was on the scheduling and transportation in people in case of a natural disaster.

- OCN (PI): funded by the French CNRS this national project was on scheduling a set of processes on a high performance computing system.

I have also applied in 2014 to the ERC Advanced Grant Call. The submitted project was titled “Advanced Mixed Integer Programming for Scheduling Theory) but, due to a very selective competition, was not funded.

I am currently the Principal Investigator of an international research project, called LOR, on the use of Machine Learning in Operations Research methods. It has been submitted to the French ANR funding agency and is currently in the final evaluation round. The participants are: the laboratory of computer science at the University of Tours (France), the laboratory of computer science at the University of Rouen (France), the CIRRELT (Canada) and Politecnico di Torino (Italy).

3. National and international reputation and professional activity for the scientific community

- Editorship of Journals with international reputation:
 - Associate editor (2012-2017) of *Omega – The International Journal of Management Science*,
 - Guest editor of feature issues of international reputed journals: *OR Spectrum*, *Annals of Operations Research*, *Computers & Operations Research*, *European Journal of Operational Research*, *Journal of Heuristics* (forthcoming).
- Visiting Professor at:
 - Politecnico di Torino (Italy): 15 days in 2014, 15 days in 2015, 1 week in 2017,
 - University of Kaiserslautern (Germany): 1 week in 2015.
 - Florida International University (USA): 1 week in 2013, 2014 and 2015.
- Participation in international conferences:
 - I have been a distinguished invited speaker at:
 - Workshop of the Spanish Group on Multicriteria Analysis (Spain) in 2007,
 - 11th International conference on Project Management and Scheduling (Turkey) in 2008,
 - 9th International conference on MultiObjective Programming and Goal Programming (Tunisia) in 2010.
 - I am member of the Program Committee of the following series of conferences: International Conference on Project Management and Scheduling (PMS, since 2010), Multidisciplinary International Scheduling and Conference (MISTA, since 2003), French Conference on Operations Research (ROADEF, since 2007). I am also member of the PC of other conferences like MIC conference, EMO conference, MAPSP conference, ...
- National Scientific Qualification:
 - In 2000, I have been qualified by the French CNU in the field of Computer Science (27^{ème} section) and Automation (61^{ème} section), for application to *Maître de Conférences* positions (assistant/associate professor),
 - In 1996, I have been qualified by the French CNU in the field of Computer Science (27^{ème} section) for application to *Professeur des Universités* positions (full professor). I have not applied for the qualification in section 61.

4. Teaching activity

Since 1999, I give lectures to students at the Polytechnique College of the University of Tours in France (bachelor and master degrees). These lectures are mainly in computer science and operations research. The

annual average volume of courses is about 250h. The courses I have taught so far are: software engineering, C++ language, UML, Object oriented algorithmic, operating systems, multiobjective scheduling, operations research, complexity theory, ...

In 2014 and 2015, I gave lectures to Ph.D. students at Politecnico di Torino (Italy) on *Exact exponential time algorithms with application to scheduling theory*.

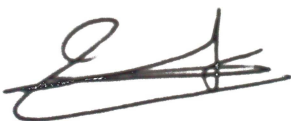
From 2010 to 2017 I have been the headmaster of the International Research Master program: Computer Aided Decision Support (CADS). This program, from the University of Tours (France), educated bachelor students on the topics of decision aid tools with a focus on Operations Research and Pattern Recognition. It was a research master which prepared students to enter a Ph.D. program. All lectures were in English.

5. Institutional offices and roles in foreign Universities and/or public and private institutions with scientific and/or technology transfer aims

Since 2007, I am the headmaster of the research group on Operations Research, Scheduling and Transportation from the Laboratory of Fundamental and Applied Computer Science (University of Tours). This group is since 2012 affiliated to the French CNRS

From 2006 to 2008, I have been the vice head of the Department of Computer Science at the Polytechnique College of the University of Tours (France).

Place and date: **Tours (France), 06/27/2018.**

A handwritten signature in black ink, appearing to read 'Vincent T'KINDT', with a stylized flourish at the end.

Pr. Vincent T'KINDT

Appendix: List of publications and communications

Books

- V. T'KINDT. *Programmation en C++ et Génie Logiciel*, Dunod, 2007, EAN : 9782100506347 (in french).
- V. T'KINDT, J-C. BILLAUT. *Multicriteria Scheduling: theory, models and algorithms*, 2nde edition, Springer-Verlag, Heidelberg, 2006. ISBN : 3-540-28230-0.
- V. T'KINDT, J-C. BILLAUT. *Multicriteria Scheduling: theory, models and algorithms*, Springer-Verlag, Heidelberg, 2002. ISBN : 3-540-43617-0.

Chapters in books

- X. GANDIBLEUX, X. DELORME, V. T'KINDT. *An Ant Colony Optimisation Algorithm for the Set Packing Problem*. In M. DORIGO; M. BIRATTARI; C. BLUM; L.M. GAMBARDELLA; F. MONDALA, T. STUTZLE (Eds.): *Ant Colony, Optimization and Swarm Intelligence: 4th International Workshop, Lecture Notes in Computer Science vol. 3172*, Springer (Heidelberg), pp. 49-60, 2004. ISBN: 3-540-22672-9.
- V. T'KINDT, J-C. BILLAUT. *Chapter 2: Multicriteria scheduling problems*. In M. Ehrgott et X. Gandibleux (Eds) : *Multiple Criteria Optimization: State of the Art Annotated Bibliographic Survey*. Kluwer's International Series in Operations Research and Management Science : vol. 52, Kluwer Academic Publishers, Boston, 2002. ISBN 1-4020-7128-0.

Guest editor of feature issues of international journals

- R. KOLISCH, R. RUIZ, V. T'KINDT, J. WEGLARZ (Eds). *Project Management and Scheduling*, OR Spectrum, vol 38, n°2, pp. 279-281, 2016.
- V. T'KINDT, E. NERON (Eds). *Project Management and Scheduling: From Theory to Calculation*, Annals of Operations Research, vol 213, n°1, Elsevier, 2014.
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