

國立中山大學

Dear Professor Badea, President of the Academy of Romanian Scientists

Dear Professor Megan, President of the Mathematical Section of the Academy of Romanian Scientists

the undersigned JC Yao, Emeritus Professor of Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung, Taiwan, please consider my request to become an honorary member of the Academy of Romanian Scientists.

Since the Academy of Romanian Scientists seems to be an important international forum for scientific cooperation, which brings together representative personalities of science, I am decided that, through my scientific activity, to support the development and the visibility of the Academy of Romanian Scientists.

My CV, list of publications and the rest of the documents of the application file are enclosed.

Thank you very much for your kind consideration.

Professor Jen-Chih Yao

Jen-Chih Yao

Place and Date

Kaohsiung

January 9, 2023

Curriculum Vitae

Jen-Chih Yao

Date of Birth: February 10, 1959

Place of birth: Chia-I, Taiwan

Status: Married

Number of Children: 1

Degree: Ph.D., Department of Operations Research, Stanford University, September, 1988–June, 1990

Master, Graduate School of Mathematics, National Taiwan Normal University University, September, 1981–June, 1983

Bachelor, National Taiwan Normal University, September, 1986– June, 1981

Mailing addresses:

Research Center for Interneural Computing

China Medical University Hospital

China Medical University

Taichung, Taiwan

Email: yaojc@mail.cmu.edu.tw

and

Department of Applied Mathematics

National Sun Yat-sen University

Kaohsiung 80424, Taiwan

Tel: +886-7-5252000 ext 3816

Fax: +886-7-5253809

Email: yaojc@math.nsysu.edu.tw

Employments:

Director, Center for Interneural Computing, China Medical University Hospital, China Medical University, January 1, 2015–present

Chair Professor, Center for General Education, China Medical University, February 1, 2015–present

Chair Professor, Center for Fundamental Science, Kaohsiung Medical University, January 1, 2014–January 31, 2015

Consultant Members in Mathematics Division, Ministry of Science and Technology, January 1, 2015-December 31, 2016
Visiting Chair Professor, Tianjin Polytechnic University, Tianjin, September 2013–August 2017
Panel member in Mathematics Division, National Science Council, January 1, 2011 -December 31, 2013
Professor, Center for Fundamental Science, Kaohsiung Medical University, February 1. 2011–December 31, 2013
Professor, Department of Applied Mathematics, February 1993- January 31, 2011
Dean of College of Science, National Sun Yat-sen University, August 2004-January 2008
Chairman of the Department of Applied Mathematics, National Sun Yat-sen University, August 1, 1997-July 31, 2000.
Panel member in Mathematics Division, National Science Council, January 1, 1998 -December 31, 2000
Associate Professor, Department of Applied Mathematics, August 1991-February 1993
Associate Professor, Department of Industrial Engineering, Yuan Ze University, August 1990-July 1991.

Honors and Awards:

1990-1999: Research Awards (Class A) from Taiwan National Science Council
1992: Young Faculty Research Award of Sciences, National Sun Yat-sen University
1993: Outstanding Award of Research, National Sun Yat-sen University
2003: Excellence Award of Research, National Sun Yat-sen University
2010: Rising Star (September 2010 in Mathematics), ESI (Essential Science Indicators) from Thomson Reuters
2011: Outstanding Contribution Award, The Mathematical Society of the Republic of China
2013: Highly Cited Researcher (Preliminary List), Thomson Reuters (<http://www.highlycited.com>)
2014: Highly Cited Researcher, Thomson Reuters (<http://www.highlycited.com>)
2015: Professor Honoris Causa of the Babes-Bolyai University Cluj-Napoca
2015: Highly Cited Researcher, Thomson Reuters (<http://www.highlycited.com>)
2016: Highly Cited Researcher, Thomson Reuters (<http://www.highlycited.com>)
2017: Highly Cited Researcher, Thomson Reuters (<http://www.highlycited.com>)
2018: Highly Cited Researcher, Clarivate Highly Cited Researchers (<https://hcr.clarivate.com>)
2019: Highly Cited Researcher, Clarivate Highly Cited Researchers (<https://hcr.clarivate.com>)
2020: Highly Cited Researcher, Clarivate Highly Cited Researchers (<https://hcr.clarivate.com>)
2021: Highly Cited Researcher, Clarivate Highly Cited Researchers (<https://hcr.clarivate.com>)

Grants selected from 2010:

On solution methods for variational inclusions and related problems in semi-inner product spaces, MOST 111-2115-M-039-001-MY2, 2022/08/01-2024/07/31, 977,000NTD
On Algorithms for Vector Optimization Problems, NSTC 108-2115-M-039-005 -MY3, 2019/08/01-2022/10/31, 4,137,000NTD
On solution methods for equilibrium and optimization problems on manifolds, MOST 105-2115-M-039-002-MY3, 2016/08/01-2019/09/30, 2,396,000NTD
On optimality conditions for optimal control problems, MOST 105-2221-E-039-009 -MY3, 2016/08/01-2019/09/30, 1,914,000NTD
Proximal methods and subdifferentials of functions on manifolds , MOST 102-2115-M-039-003 -MY3, 2013/08/01-2016/09/30, 3,425,000NTD
On conical programming and its stability, MOST 102-2221-E-039-017 -MY3 , 2013/08/01-2016/09/30, 2,440,000 NTD
On Stability in Semi-infinite Optimization, NSC 99 -2221-E-037-007 -MY3 , 2010/08/01-2013/07/31, 1,912,000NTD
Variational Inequalities and Optimization on Riemannian Manifolds, NSC 99 -2115-M-037-002 -MY3, 2010/08/01-2013/09/30, 3,660,000NTD

Bilateral projects (NSC-FRBR):

Methods of nonlinear analysis in solving of problems of control and optimization, MOST 103-2923-E-039-001-MY3, 2014/01/01-2016/12/31, 1,800,000NTD
Topological and variational methods in optimization problems , NSC 98 -2923-E-037-001 -MY3, 2009/08/01-2012/07/31, 2,225,000NTD

Editorial Boards:

Taiwanese Journal of Mathematics, Editor-in-Chief, January 2007-December 31, 2010
Annals of Mathematical Sciences and Applications (Co-Editor-in-Chief Editor)
Applied Analysis and Optimization (Co-Editor-in-Chief Editor)
Journal of Nonlinear and Variational Analysis (Co-Editor-in-Chief Editor)
Journal of Applied and Numerical Optimization (Co-Editor-in-Chief Editor)
Applied Set-valued Analysis and Optimization (Co-Editor-in-Chief Editor)
Journal of Optimization Theory and Applications
Journal of Nonlinear and Convex Analysis
Fixed Point Theory
Applicable Analysis
Journal of Inequalities and Applications
Advances in Decision Sciences
International Journal of Differential Equations

Journal of Advanced Mathematical Studies
Cogent Mathematics
Set-Value Mathematics and Applications
Communications in Numerical Analysis
Journal of Global Optimization (Guest Editor)
Optimization (Guest Editor)
Fixed Point Theory and Applications (Guest Editor)

Area of Research Interest:

Vector optimization
Fixed point theory
Variational inequalities
Complementarity problems
Variational analysis
Equilibrium problems
Optimal control
Generalized convexity and generalized monotonicity

Referees:

SIAM Journal on Optimization, SIAM Journal on Matrix Analysis and Applications, Mathematics of Operations Research, Optimization, Journal of Optimization Theory and Applications, Journal of Mathematical Analysis and Applications, Journal of Global Optimization, Nonlinear Analysis, Computers and Mathematics with Applications, Mathematical Methods of Operations Research, Applied Mathematics Letters, Taiwanese Journal of Mathematics, Journal of Industrial Management and Optimization, Fixed Point Theory, Journal of Inequalities and Applications, Fixed Point Theory and Applications, Mathematical Review, Communication on Pure and Applied Analysis, European Journal of Operational Research, Central European Journal of Mathematics, Pacific Journal of Optimization, Journal of Nonlinear and Convex Analysis, Bulletin of the Australian Mathematical Society, Mathematical and Computer Modelling, Optimization Methods and Software, Journal of Computational and Applied Mathematics, Computation and Applied Mathematics, Journal of the Korean Mathematical Society, Applied Mathematics and Mechanics, Acta Mathematica Sinica, English Series, Numerical Functional Analysis and Optimization, Applicable Analysis, Advances in Nonlinear Variational Inequalities, Mathematical Modelling and Analysis, Bulletin of the Korean Mathematical Society, International journal of Optimization: Theory, Methods and Applications, Carpathian Journal of Mathematics, Journal of Systems Science and Complexity, Acta Mathematica Scientia

Books

1. Regina S. Burachik and Jen-Chih Yao, Variational Analysis and Generalized Differentiation in Optimization and Control In Honor of Boris S. Mordukhovich, Springer Optimization and Its Applications, Vol. 47, 231 pp. Hardcover, ISBN 978-1-4419-0436-2, 2010.
2. Qamrul Hasan Ansari and Jen-Chih Yao, Recent Developments in Vector Optimization, Vector Optimization Series, Vol. 1, 551 pp. Hardcover, ISBN 978-3-642-21113-3, 2011.
3. Qamrul Hasan Ansari, Elisabeth Köbis and Jen-Chih Yao, Vector Variational Inequalities and Vector Optimization, Springer, Theory and Applications, Vector Optimization Series, 509 pp. Hardcover, ISBN 978-3-319-63049-6, 2017.

Selected Publication from 2014: (809 papers have been published up to December 2022.)

1. Wei, Zhou; Yao, Jen-Chih; Zheng, Xi Yin Strong Abadie CQ, ACQ, calmness and linear regularity. Math. Program. 145 (2014), no. 1-2, Ser. A, 97131.
2. Song, Wen; Xu, Xiaomei; Yao, Jen-Chih A note on the condition numbers of convex sets. Math. Program. 149 (2015), no. 1-2, Ser. A, 459463.
3. Wang, Xiangmei; Li, Chong; Wang, Jinhua; Yao, Jen-Chih Linear convergence of sub-gradient algorithm for convex feasibility on Riemannian manifolds. SIAM J. Optim. 25 (2015), no. 4, 23342358.
4. Huong, N. T. T.; Yao, J.-C.; Yen, N. D. Polynomial vector variational inequalities under polynomial constraints and applications. SIAM J. Optim. 26 (2016), no. 2, 10601071.
5. Wang, Jinhua; Li, Chong; Lopez, Genaro; Yao, Jen-Chih Proximal point algorithms on Hadamard manifolds: linear convergence and finite termination. SIAM J. Optim. 26 (2016), no. 4, 26962729.
6. Shen, Weiping; Li, Chong; Yao, Jen-Chih Convergence analysis of Newton-like methods for inverse eigenvalue problems with multiple eigenvalues. SIAM J. Numer. Anal. 54 (2016), no. 5, 29382950.
7. Yao, Jen-Chih; Zheng, Xi Yin; Zhu, Jiangxing Stable minimizers of ϵ -regular functions. SIAM J. Optim. 27 (2017), no. 2, 11501170.
8. Li, Chong; Meng, Li; Peng, Lihui; Hu, Yaohua; Yao, Jen-Chih Weak sharp minima for convex infinite optimization problems in normed linear spaces. SIAM J. Optim. 28 (2018), no. 3, 19992021.

9. Kien, Bui Trong; Tuyen, Nguyen Van; Yao, Jen-Chih Second-order KKT optimality conditions for multiobjective optimal control problems. *SIAM J. Control Optim.* 56 (2018), no. 6, 40694097.
10. Shen, Zongshan; Yao, Jen-Chih; Zheng, Xi Yin Calmness and the Abadie CQ for multifunctions and linear regularity for a collection of closed sets. *SIAM J. Optim.* 29 (2019), no. 3, 22912319.
11. Kornev, Sergey; Obukhovskii, Valeri; Yao, Jen-Chih Random integral guiding functions in the periodic problem for random differential inclusions with causal multioperators. *J. Differential Equations* 268 (2020), no. 10, 57925810.
12. Kien, Bui Trong; Qin, Xiaolong; Wen, Ching-Feng; Yao, Jen-Chih Second-order optimality conditions for multiobjective optimal control problems with mixed pointwise constraints and free right end point. *SIAM J. Control Optim.* 58 (2020), no. 4, 26582677.
13. Wang, Jinhua; Wang, Xiangmei; Li, Chong; Yao, Jen-Chih Convergence analysis of gradient algorithms on Riemannian manifolds without curvature constraints and application to Riemannian mass. *SIAM J. Optim.* 31 (2021), no. 1, 172199.
14. Li, Chong; Ng, Kung Fu; Yao, Jen-Chih; Zhao, Xiaopeng The FM and BCQ qualifications for inequality systems of convex functions in normed linear spaces. *SIAM J. Optim.* 31 (2021), no. 2, 14101432.
15. Jing, Zhao; Liu, Zhenhai; Vilches, Emilio; Wen, Chingfeng; Yao, Jen-Chih Optimal control of an evolution hemivariational inequality involving history-dependent operators. *Commun. Nonlinear Sci. Numer. Simul.* 103 (2021), Paper No. 105992, 17 pp.
16. Zhao, Xiaopeng; Yao, Jen-Chih Linear convergence of a nonmonotone projected gradient method for multiobjective optimization. *J. Global Optim.* 82 (2022), no. 3, 577594.
17. Jolaoso, Lateef O.; Shehu, Yekini; Yao, Jen-Chih Inertial extragradient type method for mixed variational inequalities without monotonicity. *Math. Comput. Simulation* 192 (2022), 353369.
18. Ogbuisi, Ferdinand U.; Shehu, Yekini; Yao, Jen-Chih An alternated inertial method for pseudomonotone variational inequalities in Hilbert spaces. *Optim. Eng.* 23 (2022), no. 2, 917945.
19. Liu, Liya; Petruel, Adrian; Qin, Xiaolong; Yao, Jen-Chih An inertial subgradient-extragradient algorithm for solving pseudomonotone variational inequalities. *Fixed Point Theory* 23 (2022), no. 2, 533555.

1	NUMELE	YAO										
	Prenumele	Jen-Chih										
	Codul numeric personal											
	Data nașterii	AN	1959	LUNA	February	ZI	10					
	Locul nașterii	Chia-I				Județul:						
2	Stare civilă:	married										
3	Copii [nume, prenume, vârste]	Hao-Ren Yao, 27										
4	Domiciliul actual:	Localitate:	Kaohsiung					Cod poștal	80424			
		Județ:						sau sector:				
		Strada:						N r.				
		Bloc			Scara:			etaj			A P.	
5	Adresa locului de muncă actual [Principal]	Nume instituție	National Sun Yat-sen University									
		Adresa și codul poștal	Department of Applied Mathematics, Kaohsiung 80424, Taiwan									
		Județ:										
		Poziția (funcția de conducere)	Emeritus Professor									
6	Telefon mobil 1											
	Telefon mobil serviciu											
	E-mail serviciu:	yaojc@mail.cmu.edu.tw										
	e-mail personal:	yaojc@math.nsysu.edu.tw										
	Link web prezentare:											
	Link-uri social media (opțional)	Facebook:										
Linkedin:												
Youtube:												
Instagram:												
7	DOCTORAT 1	Data susținerii tezei:	1990									
		Specialitatea:	Mathematics/Operations Research									
		Titlul tezei de doctorat	Generalized Quasivariational Inequality and Implicit Complementarity Problems									
		Coordonator	Professor Richard Warren Cottle									
		INSTITUȚIA unde a fost susținută	Stanford University, USA									
		Se adaugă linii suplimentare dacă este cazul (un al doilea doctorat)										

8	Gradul universitar sau titlu științific în cercetare	Full Professor, National Sun Yat-sen University, Kaohsiung, Taiwan; 1993									
9	TITLUL DE DOCTOR „HONORIS CAUSA” Se bifează "Nu este cazul" sau se completează celula DA	NU este cazul									
10	Conducător de doctorat?	DA, Nr. doctori absolvenți: 6									
11	Secția științifică a AOSR din care faceți parte sau la care aspirați [pentru membrii în așteptare] <i>NOTĂ: Se marchează celula corespunzătoare cu o culoare</i>	S1. Matematică		S2. Fizică		S3. Chimie	S4. Biologie		S5. Geodinamică		
		S6. Științe tehnice		S7. Științe Agricole, silvice și Medicină veterinară			S8. Medicină	S9. Științe economice, juridice și sociologice		S.10 Filosofie, Psihologie, Teologie	
		S11. Istorie și Arheologie			S12. Știința și tehnologia informației			S13. Științe militare			
12	Data completare CV	AN	2023			LUNA	January		ZI	9	

Professorship certificate

教授證書

教 第 七 五 〇 一 號 字



姚 任 之

P120048705
民國四十六年二月十日生

經本部依大學獨立學院及
專科學校教師審查辦法審
定合於教授資格此證

教育部部長 郭為藩

中華民國 八十五年七月十六日



年資摺算：八十二年七月
送審學校：國立中山大學

核對者：



The Leland Stanford Junior University
to all to whom these Letters shall come Greeting


The Trustees and Faculty of the University, by virtue of the authority
vested in them, have conferred on

Han, Jen-Chih

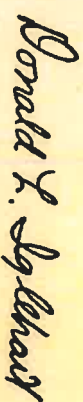
who has satisfactorily pursued the Studies and passed the Examinations
required therefor the Degree of

Doctor of Philosophy

with all the Rights Privileges and Honors therunto appertaining
Given at Stanford University in the State of California on the Seventeenth Day of
June in the Year One Thousand Nine Hundred and Ninety the Two Hundred-
fourteenth Year of the Republic and the Ninety-Ninth Academic Year of the University.


President of the University


President of the Board of Trustees


Operations Research





國立臺灣師範大學學士學位證明書
National Taiwan Normal University



姚任之

中華民國肆拾捌年貳月拾日生，

於中華民國柒拾年柒月在本校理學院數學系修業期滿，成績及格，准予畢業，依學位授予法之規定，授予以理學學士學位。茲因證書遺失，特予證明。

Certification of Degree Conferral

This is to certify that

YAO, Jen-Chih

graduated from the Department of Mathematics, College of Science, National Taiwan Normal University. The above mentioned student was awarded the degree of Bachelor of Science in July 1981.

校長 President

吳正己

Cheng-Chih Wu



中華民國 112 年 1 月 10 日

(112)學補字第 1901 號



國立臺灣師範大學碩士學位證明書
National Taiwan Normal University



姚任之

中華民國肆拾捌年貳月拾日生，
於中華民國柒拾參年柒月在本校理學院數學研究所碩士班研究期滿，經碩士學位考試合格，依學位授予法之規定，授予以理學碩士學位。茲因證書遺失，特予證明。

Certification of Degree Conferral
This is to certify that

YAO, Jen-Chih

graduated from the Graduate Institute of Mathematics, College of Science, National Taiwan Normal University. The above mentioned student was awarded the degree of Master of Science in July 1984.

校長 President

吳正己

Cheng-Chih Wu



中華民國 112 年 1 月 10 日

(112) 碩補字第 1801 號





Prof.dr. Adrian Petrușel
- Prorector -
Universitatea Babeș-Bolyai Cluj-Napoca
Facultatea de Matematică și Informatică
E-mail: adrian.petrusel@ubbcluj.ro

Recomandare privind primirea în AOȘR, ca membru de onoare al Secției de Matematică
a prof. univ. dr. Jen-Chih Yao, profesor emerit la
National Sun Yat-sen University, Kaohsiung, Taiwan

Profesorul universitar Jen-Chih Yao este profesor emerit al National Sun Yat-sen University, Kaohsiung, Taiwan. De asemenea, profesorul universitar Jen-Chih Yao coordonează Research Center for Interneural Computing din cadrul China Medical University Hospital, unitate afiliată la China Medical University, Taichung, Taiwan și este Chair Professor la Center for General Education, China Medical University. Profesorul universitar Jen-Chih Yao și-a desfășurat o mare parte din carieră profesională la National Sun Yat-sen University, Kaohsiung, Taiwan, iar acum activează în cadrul China Medical University, Taichung, una dintre universitățile private de prestigiu din taiwan.

A obținut titlul de doctor în Matematică în anul 1990 la prestigioasa universitate Stanford, cu o teză de doctorat în Optimizare.

Profesorul J.-C. Yao are o carieră științifică prodigioasă, fiind un cercetător prolific în domeniul matematicilor pure și aplicate, mai precis în domeniul Teoriei optimizării, Teoriei punctului fix și al Analizei variaționale. Profesorul Jen-Chih Yao are peste 800 de publicații științifice, dintre care, indexate Web of Science sunt peste 540.

Acestea au generat peste 21.300 de citări Google Scholar și un indice Hirsch egal cu 72. Numai în 2022 a publicat 35 de articole indexate Web of Science.

A primit numeroase premii și distincții internaționale, fiind recompensat cu titlul „Highly Cited Researcher” din 2013 până în 2021, de către Web of Science.

Profesorul universitar Jen-Chih Yao continuă să fie un membru activ al vieții științifice internaționale, prin publicații numeroase și relevante, organizări de conferințe și work-shop-uri etc. El este redactor-șef sau co-redactor-șef a numeroase reviste de specialitate foarte prestigioase, dintre care enumerăm: Annals of Mathematical Sciences and Applications, Journal of Mathematics, Taiwanese Journal of Mathematics, Applied Analysis and Optimization, Journal of Nonlinear and Variational Analysis, Journal of Applied and Numerical Optimization, Applied Set-Valued Analysis and Optimization, Results in Nonlinear Analysis.

Toate aceste argumente și altele pe care nu le-am mai amintit aici, mă îndreptătesc să recomand cu toată căldura primirea în AOȘR, ca membru de onoare, a profesorului universitar Jen-Chih Yao.

Prof. dr. Adrian Petrușel

9 februarie 2023

