

**Lampros K. Michalis, MD, MRCP, FESC**  
**Professor of Cardiology**  
**Faculty of Medicine, School of Health Sciences, University of Ioannina**

**Abbreviated CV**

Lampros K. Michalis is Professor of Cardiology in Faculty of Medicine, School of Health Sciences, University of Ioannina and Director of the 2<sup>nd</sup> Department of Cardiology in the Faculty of Medicine and the University Hospital of Ioannina.

He was born in August 1960 in Arta, Greece. He graduated with distinction from the Medical School, University of Athens, Greece in 1984. He received scholarships from the National Foundation of Greece during the five out of the six undergraduate years in the Medical School. In 1989 he was awarded with Distinction for his MD Thesis from the Athens Medical School, Greece.

In 1992 he became Member of the Royal College of Physicians, UK. He did his training in Cardiology in UK and he worked as a Lecturer in the School of Post Graduate Medicine of Keele University, UK, from September 1993 until May 1995.

In May 1995 he was elected as Lecturer in Cardiology at the Medical School of Ioannina, Greece. In August 1999 he was elected as Associate Professor of Cardiology at the Medical School, University of Ioannina, Greece and in May 2005 as Professor of Cardiology in the same medical school.

In 1997 he became Fellow of the European Society of Cardiology.

**His research interests focus on:**

(a) clinical and experimental studies in Cardiology, Interventional Cardiology and peripheral arterial disease

(b) bioengineering research projects on the development of software for the assessment of long duration ECG signals for the diagnosis of ischaemia and arrhythmias and hybrid imaging techniques of the coronary and peripheral arteries;

(c) clinical research projects regarding the association of blood flow and coronary or carotid atherosclerosis and

(d) clinical research projects in pre-clinical atherosclerosis.

Most of the projects he has been involved are performed in collaboration with major research centers and received Grants from the Ministry of Research and Technology, as well as other organizations. He has participated in many International Multicenter Studies.

He is a reviewer in at least 20 international peer review journals. He has been an invited speaker in many national and international congresses and has published more than 190 papers.

## Publications

1: Kigka VI, Sakellarios A, Kyriakidis S, Rigas G, Athanasiou L, Siogkas P, Tsompou P, Loggitsi D, Benz DC, Buechel R, Lemos PA, Pelosi G, **Michalis LK**, Fotiadis DI. A three-dimensional quantification of calcified and non-calcified plaques in coronary arteries based on computed tomography coronary angiography images: Comparison with expert's annotations and virtual histology intravascular ultrasound. *Comput Biol Med.* 2019 Oct;113:103409. doi: 10.1016/j.combiomed.2019.103409. Epub 2019 Aug 27. PubMed PMID: 31480007.

2: Anagnostopoulos CD, Siogkas PK, Liga R, Benetos G, Maaniitty T, Sakellarios AI, Koutagiar I, Karakitsios I, Papafaklis MI, Berti V, Sciagrà R, Scholte AJHA, **Michalis LK**, Gaemperli O, Kaufmann PA, Pelosi G, Parodi O, Knuuti J, Fotiadis DI, Neglia D. Characterization of functionally significant coronary artery disease by coronary computed tomography angiography-based index: a comparison with positron emission tomography. *Eur Heart J Cardiovasc Imaging.* 2019 Aug;20(8):897-905. doi: 10.1093/ehjci/jey199. PubMed PMID: 30629151.

3: Bourantas CV, Räber L, Sakellarios A, Ueki Y, Zanchin T, Koskinas KC, Yamaji K, Taniwaki M, Heg D, Radu MD, Papafaklis MI, Kalatzis F, Naka KK, Fotiadis DI, Mathur A, Serruys PW, **Michalis LK**, Garcia-Garcia HM, Karagiannis A, Windecker S. Utility of Multimodality Intravascular Imaging and the Local Hemodynamic Force to Predict Atherosclerotic Disease Progression. *JACC Cardiovasc Imaging.* 2019 Jun;12. pii: S1936-878X(19)30336-5. doi: 10.1016/j.jcmg.2019.02.026. [Epub ahead of print] PubMed PMID: 31202749.

4: Naka KK, Bazoukis G, Bechlioulis A, Korantzopoulos P, **Michalis LK**, Ntzani EE. Association between atrial fibrillation and patient-important outcomes in heart failure patients with implantable cardioverter-defibrillators: a systematic review and meta-analysis. *Eur Heart J Qual Care Clin Outcomes.* 2019 Apr;5(2):96-104. doi: 10.1093/ehjqcco/qcy054. PubMed PMID: 30462233.

5: Siogkas PK, Anagnostopoulos CD, Liga R, Exarchos TP, Sakellarios AI, Rigas G, Scholte AJHA, Papafaklis MI, Loggitsi D, Pelosi G, Parodi O, Maaniitty T, **Michalis LK**, Knuuti J, Neglia D, Fotiadis DI. Noninvasive CT-based hemodynamic assessment of coronary lesions derived from fast computational analysis: a comparison against fractional flow reserve. *Eur Radiol.* 2019 Apr;29(4):2117-2126. doi: 10.1007/s00330-018-5781-8. Epub 2018 Oct 15. PubMed PMID: 30324382.

6: Siogkas PK, Papafaklis MI, Lakkas L, Exarchos TP, Karpaliotis D, Ali ZA, Pelosi G, Parodi O, Katsouras CS, Fotiadis DI, **Michalis LK**. Virtual Functional Assessment of Coronary Stenoses Using Intravascular Ultrasound Imaging: A Proof-of-Concept Pilot Study. *Heart Lung Circ.* 2019 Apr;28(4):e33-e36. doi:10.1016/j.hlc.2018.02.011. Epub 2018 Mar 2. PubMed PMID: 29895487.

7: Bourantas CV, Ramasamy A, Karagiannis A, Sakellarios A, Zanchin T, Yamaji K, Ueki Y, Shen X, Fotiadis DI, **Michalis LK**, Mathur A, Serruys PW, Garcia-Garcia HM, Koskinas K, Torii R, Windecker S, Räber L. Angiographic derived endothelial shear stress: a new predictor of atherosclerotic disease

progression. *Eur Heart J Cardiovasc Imaging*. 2019 Mar 1;20(3):314-322. doi: 10.1093/ehjci/jey091. PubMed PMID: 30020435.

8: Vergallo R, Papafaklis MI, D'Amario D, **Michalis LK**, Crea F, Porto I. Coronary plaque erosion developing in an area of high endothelial shear stress: insights from serial optical coherence tomography imaging. *Coron Artery Dis*. 2019 Jan;30(1):74-75. doi: 10.1097/MCA.0000000000000673. PubMed PMID: 30407208.

9: Giannitsi S, Bougiakli M, Bechlioulis A, Kotsia A, **Michalis LK**, Naka KK. 6-minute walking test: a useful tool in the management of heart failure patients. *Ther Adv Cardiovasc Dis*. 2019 Jan-Dec;13:1753944719870084. doi:10.1177/1753944719870084. Review. PubMed PMID: 31441375; PubMed Central PMCID: PMC6710700.

10: Kigka VI, Georga EI, Sakellarios AI, Tachos NS, Andrikos I, Tsompou P, Rocchiccioli S, Pelosi G, Parodi O, **Michalis LK**, Fotiadis DI. A Machine Learning Approach for the Prediction of the Progression of Cardiovascular Disease based on Clinical and Non-Invasive Imaging Data. *Conf Proc IEEE Eng Med Biol Soc*. 2018 Jul;2018:6108-6111. doi: 10.1109/EMBC.2018.8513620. PubMed PMID: 30441728

11: Tsompou PI, Sakellarios AI, Siogkas PK, Andrikos IO, Kigka VI, Lemos PA, **Michalis LK**, Fotiadis DI. Comparison of 3D reconstruction methods based on different cardiovascular imaging: a study of Multimodality reconstruction method. *Conf Proc IEEE Eng Med Biol Soc*. 2018 Jul;2018:899-902. doi:10.1109/EMBC.2018.8512322. PubMed PMID: 30440536.

12: Nakas G, Bechlioulis A, Marini A, Vakalis K, Bougiakli M, Giannitsi S, Nikolaou K, Antoniadou EI, Kotsia A, Gartzonika K, Chasiotis G, Bairaktari E, Katsouras CS, Triantis G, Sionis D, **Michalis LK**, Naka KK. The importance of characteristics of angina symptoms for the prediction of coronary artery disease in a cohort of stable patients in the modern era. *Hellenic J Cardiol*. 2018 Jun 8. pii: S1109-9666(18)30027-7. doi: 10.1016/j.hjc.2018.06.003. [Epub ahead of print] PubMed PMID: 29890282.

13: Naka KK, Papathanassiou K, Bechlioulis A, Pappas K, Tigas S, Makriyiannis D, Antoniou S, Kazakos N, Margeli A, Papassotiriou I, Tsatsoulis A, **Michalis LK**. Association of vascular indices with novel circulating biomarkers as prognostic factors for cardiovascular complications in patients with type 2 diabetes mellitus. *Clin Biochem*. 2018 Mar;53:31-37. doi:10.1016/j.clinbiochem.2017.12.010. Epub 2017 Dec 27. PubMed PMID: 29288632.

14: Papafaklis MI, Muramatsu T, Ishibashi Y, Bourantas CV, Fotiadis DI, Brilakis ES, Garcia-Garcia HM, Escaned J, Serruys PW, **Michalis LK**. Virtual Resting Pd/Pa From Coronary Angiography and Blood Flow Modelling: Diagnostic Performance Against Fractional Flow Reserve. *Heart Lung Circ*. 2018 Mar;27(3):377-380. doi:10.1016/j.hlc.2017.03.163. Epub 2017 May 3. PubMed PMID: 28506646.

15: Bazoukis G, Letsas KP, Tse G, Naka KK, Korantzopoulos P, Ntzani E, Vlachos K, Saplaouras A, Pagkalidou E, **Michalis LK**, Sideris A, Efremidis M. Predictors of arrhythmia recurrence in patients with heart failure undergoing left atrial ablation for atrial fibrillation. *Clin Cardiol*. 2018 Jan;41(1):63-67.

doi:10.1002/clc.22850. Epub 2018 Jan 22. PubMed PMID: 29356016; PubMed Central PMCID:PMC6489697.

16: Bazoukis G, Tse G, Naka KK, Kalfakakou V, Vlachos K, Saplaouras A, Letsas KP, Korantzopoulos P, Thomopoulos C, Michelongona P, Bazoukis X, González-Salvado V, Liu T, **Michalis LK**, Baranchuk A, Itoh T, Efremidis M, Tsioufis C, Stavrakis S. Impact of major earthquakes on the incidence of acute coronary syndromes – A systematic review of the literature. *Hellenic J Cardiol.* 2018 Sep-Oct;59(5):262-267. doi: 10.1016/j.hjc.2018.05.005. Epub 2018 May 25. PubMed PMID:29807192.

17: Naka KK, Bechlioullis A, Marini A, Sionis D, Vakalis K, Triantis G, Wilkins L, Rogus J, Kornman KS, Witztum JL, Doucette-Stamm L, **Michalis LK**, Tsimikas S. Interleukin-1 genotypes modulate the long-term effect of lipoprotein(a) on cardiovascular events: The Ioannina Study. *J Clin Lipidol.* 2018 Mar - Apr;12(2):338-347. doi: 10.1016/j.jacl.2017.12.004. Epub 2017 Dec 19. PubMed PMID: 29310992.

18: Siogkas PK, Stefanou KA, Athanasiou LS, Papafaklis MI, **Michalis LK**, Fotiadis DI. Art care: A multi-modality coronary 3D reconstruction and hemodynamic status assessment software. *Technol Health Care.* 2018;26(1):187-193. doi:10.3233/THC-170881. PubMed PMID: 29060945.

19: Papafaklis MI, Mavrogiannis MC, Siogkas PK, Lakkas LS, Katsouras CS, Fotiadis DI, **Michalis LK**. Functional assessment of lesion severity without using the pressure wire: coronary imaging and blood flow simulation. *Expert Rev Cardiovasc Ther.* 2017 Nov;15(11):863-877. doi: 10.1080/14779072.2017.1379899. Epub 2017 Sep 19. Review. PubMed PMID: 28902523.

20: Sakellarios A, Bourantas CV, Papadopoulou SL, Kitslaar PH, Girasis C, Stone GW, Reiber JHC, **Michalis LK**, Serruys PW, de Feyter PJ, Garcia-Garcia HM, Fotiadis DI. The effect of coronary bifurcation and haemodynamics in prediction of atherosclerotic plaque development: a serial computed tomographic coronary angiographic study. *EuroIntervention.* 2017 Oct 13;13(9):e1084-e1091. doi:10.4244/EIJ-D-16-00929. PubMed PMID: 28606882.

21: Giannopoulos S, Markoula S, Sioka C, Zouroudi S, Spiliotopoulou M, Naka KK, **Michalis LK**, Fotopoulos A, Kyritsis AP. Detecting Myocardial Ischemia With (99m)Technetium-Tetrofosmin Myocardial Perfusion Imaging in Ischemic Stroke. *Neurohospitalist.* 2017 Oct;7(4):164-168. doi: 10.1177/1941874417704752. Epub 2017 Apr 18. PubMed PMID: 28974994; PubMed Central PMCID: PMC5613870.

22: Karanasiou GS, Tachos NS, Sakellarios A, **Michalis LK**, Conway C, Edelman ER, Fotiadis DI. In silico assessment of the effects of material on stent deployment. *Proc IEEE Int Symp Bioinformatics Bioeng.* 2017 Oct;2017:462-467. doi:10.1109/BIBE.2017.00-11. Epub 2018 Jan 11. PubMed PMID: 30079407; PubMed Central PMCID: PMC6069522.

23: Sakellarios AI, Raber L, Bourantas CV, Exarchos TP, Athanasiou LS, Pelosi G, Koskinas KC, Parodi O, Naka KK, **Michalis LK**, Serruys PW, Garcia-Garcia HM, Windecker S, Fotiadis DI. Prediction of Atherosclerotic Plaque Development in an In Vivo Coronary Arterial Segment Based on a Multilevel

Modeling Approach. *IEEE Trans Biomed Eng.* 2017 Aug;64(8):1721-1730. doi: 10.1109/TBME.2016.2619489. Epub 2016 Oct 19. PubMed PMID: 28113248.

24: Siogkas PK, Rigas G, Exarchos TP, Sakellarios AI, Papafaklis MI, Pelosi G, Parodi O, **Michalis LK**, Fotiadis DI. Computational estimation of the hemodynamic significance of coronary stenoses in arterial branches deriving from CCTA: A proof-of-concept study. *Conf Proc IEEE Eng Med Biol Soc.* 2017 Jul;2017:1348-1351. doi: 10.1109/EMBC.2017.8037082. PubMed PMID: 29060126.

25: Andrikos IO, Sakellarios AI, Siogkas PK, Rigas G, Exarchos TP, Athanasiou LS, Karanasos A, Toutouzas K, Tousoulis D, **Michalis LK**, Fotiadis DI. A novel hybrid approach for reconstruction of coronary bifurcations using angiography and OCT. *Conf Proc IEEE Eng Med Biol Soc.* 2017 Jul;2017:588-591. doi:10.1109/EMBC.2017.8036893. PubMed PMID: 29059941.

26: Karanasiou GS, Papafaklis MI, Conway C, **Michalis LK**, Tzafiriri R, Edelman ER, Fotiadis DI. Stents: Biomechanics, Biomaterials, and Insights from Computational Modeling. *Ann Biomed Eng.* 2017 Apr;45(4):853-872. doi: 10.1007/s10439-017-1806-8. Epub 2017 Feb 3. Review. PubMed PMID: 28160103.

27: Sakellarios AI, Bizopoulos P, Papafaklis MI, Athanasiou L, Exarchos T, Bourantas CV, Naka KK, Patterson AJ, Young VE, Gillard JH, Parodi O, **Michalis LK**, Fotiadis DI. Natural History of Carotid Atherosclerosis in Relation to the Hemodynamic Environment. *Angiology.* 2017 Feb;68(2):109-118. doi:10.1177/0003319716644138. Epub 2016 Sep 29. PubMed PMID: 27081091.

28: Sakellarios A, Bourantas CV, Papadopoulou SL, Tsirka Z, de Vries T, Kitslaar PH, Girasis C, Naka KK, Fotiadis DI, Veldhof S, Stone GW, Reiber JH, **Michalis LK**, Serruys PW, de Feyter PJ, Garcia-Garcia HM. Prediction of atherosclerotic disease progression using LDL transport modelling: a serial computed tomographic coronary angiographic study. *Eur Heart J Cardiovasc Imaging.* 2017 Jan;18(1):11-18. doi:10.1093/ehjci/jew035. Epub 2016 Mar 16. PubMed PMID: 26985077.

29: Marini A, Naka KK, Vakalis K, Bechlioulis A, Bougiakli M, Giannitsi S, Nikolaou K, Antoniadou EI, Gartzonika C, Chasiotis G, Bairaktari E, Katsouras CS, Triantis G, Sionis D, **Michalis LK**. Extent of coronary artery disease in patients undergoing angiography for stable or acute coronary syndromes. *Hellenic J Cardiol.* 2017 Mar - Apr;58(2):115-121. doi: 10.1016/j.hjc.2016.08.004. Epub 2017 May 8. PubMed PMID: 28495650.

30: Siogkas PK, Papafaklis MI, Gogas BD, Samady H, **Michalis LK**, Fotiadis DI. Computational estimation of the severity of coronary lesions with intravascular ultrasound images: a pilot study. *Conf Proc IEEE Eng Med Biol Soc.* 2016 Aug;2016:2664-2667. doi: 10.1109/EMBC.2016.7591278. PubMed PMID: 28268869.

31: Bizopoulos PA, Sakellarios A, **Michalis LK**, Koutsouris DD, Fotiadis DI. 3-D registration on carotid artery imaging data: MRI for different timesteps. *Conf Proc IEEE Eng Med Biol Soc.* 2016 Aug;2016:1159-1162. doi:10.1109/EMBC.2016.7590910. PubMed PMID: 28324941.

- 32: Bourantas CV, Papadopoulou SL, Serruys PW, Sakellarios A, Kitslaar PH, Bizopoulos P, Girasis C, Zhang YJ, de Vries T, Boersma E, Papafaklis MI, Naka KK, Fotiadis DI, Stone GW, Reiber JH, **Michalis LK**, de Feyter PJ, Garcia-Garcia HM. Noninvasive Prediction of Atherosclerotic Progression: The PROSPECT-MSCT Study. *JACC Cardiovasc Imaging*. 2016 Aug;9(8):1009-11. doi: 10.1016/j.jcmg.2015.07.005. Epub 2015 Sep 9. PubMed PMID: 26363836.
- 33: Papafaklis MI, Mavrogiannis MC, **Michalis LK**. Prolonged dual antiplatelet therapy: a potential mitigator of the adverse effects of local haemodynamic shear stress in high-risk coronary regions? *EuroIntervention*. 2016 Feb;11(11):e1218-20. doi: 10.4244/EIJV11I11A242. PubMed PMID: 26865439.
- 34: Athanasiou L, Rigas G, Sakellarios AI, Exarchos TP, Siogkas PK, Bourantas CV, Garcia-Garcia HM, Lemos PA, Falcao BA, **Michalis LK**, Parodi O, Vozzi F, Fotiadis DI. Three-dimensional reconstruction of coronary arteries and plaque morphology using CT angiography--comparison and registration with IVUS. *BMC Med Imaging*. 2016 Jan 19;16:9. doi: 10.1186/s12880-016-0111-6. PubMed PMID: 26785613; PubMed Central PMCID: PMC4719213.
- 35: Polikandrioti M, Goudevenos J, **Michalis LK**, Ioannis K, Elpida G, Kostas K, Elisaf M. Correlation Between the Type of Acute Coronary Syndrome With the Needs of Hospitalized Patients. *Glob J Health Sci*. 2015 Nov 18;8(7):126-34. doi:10.5539/gjhs.v8n7p126. PubMed PMID: 26925909; PubMed Central PMCID: PMC4965660.
- 36: Kotsia AP, Papafaklis MI, Michael TT, Rangan BV, Peltz M, Roesle M, Jessen M, Willis B, Christopoulos G, Nakas G, Giannitsi S, **Michalis LK**, Fotiadis DI, Banerjee S, Brilakis ES. Serial Multimodality Evaluation of Aortocoronary Bypass Grafts During the First Year After CABG Surgery. *JACC Cardiovasc Imaging*. 2015 Nov;8(11):1341-3. doi: 10.1016/j.jcmg.2014.12.017. Epub 2015 Mar 18. PubMed PMID: 25797131.
- 37: Polikandrioti M, Goudevenos J, **Michalis LK**, Koutelekos IG, Georgiadi E, Karakostas C, Elisaf M. Association Between Characteristics of Hospitalized Heart Failure Patients With Their Needs. *Glob J Health Sci*. 2015 Oct 21;8(6):95-108. doi: 10.5539/gjhs.v8n6p95. PubMed PMID: 26755471; PubMed Central PMCID: PMC4954897.
- 38: Athanasiou LS, Rigas GA, Sakellarios AI, Exarchos TP, Siogkas PK, Naka KK, Panetta D, Pelosi G, Vozzi F, **Michalis LK**, Parodi O, Fotiadis DI. Computerized methodology for micro-CT and histological data inflation using an IVUS based translation map. *Comput Biol Med*. 2015 Oct 1;65:168-76. doi:10.1016/j.combiomed.2015.02.018. Epub 2015 Mar 6. PubMed PMID: 25771781.
- 39: Athanasiou LS, Rigas G, Sakellarios A, Bourantas CV, Stefanou K, Fotiou E, Exarchos TP, Siogkas P, Naka KK, Parodi O, Vozzi F, Teng Z, Young VE, Gillard JH, Prati F, **Michalis LK**, Fotiadis DI. Error propagation in the characterization of atheromatic plaque types based on imaging. *Comput Methods Programs Biomed*. 2015 Oct;121(3):161-74. doi: 10.1016/j.cmpb.2015.06.002. Epub 2015 Jul 2. PubMed PMID: 26165637.

- 40: Domouzoglou EM, Naka KK, Vlahos AP, Papafaklis MI, **Michalis LK**, Tsatsoulis A, Maratos-Flier E. Fibroblast growth factors in cardiovascular disease: The emerging role of FGF21. *Am J Physiol Heart Circ Physiol*. 2015 Sep 15;309(6):H1029-38. doi: 10.1152/ajpheart.00527.2015. Epub 2015 Jul 31. Review. PubMed PMID: 26232236; PubMed Central PMCID: PMC4747916.
- 41: Athanasiou LS, Rigas GA, Sakellarios AI, Exarchos TP, Siogkas PK, **Michalis LK**, Parodi O, Vozzi F, Fotiadis DI. Three-dimensional reconstruction of coronary arteries and plaque morphology using CT angiography - comparison and registration using IVUS. *Conf Proc IEEE Eng Med Biol Soc*. 2015 Aug;2015:5638-41. doi:10.1109/EMBC.2015.7319671. PubMed PMID: 26737571.
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- 43: Papafaklis MI, Bourantas CV, Yonetsu T, Vergallo R, Kotsia A, Nakatani S, Lakkas LS, Athanasiou LS, Naka KK, Fotiadis DI, Feldman CL, Stone PH, Serruys PW, Jang IK, **Michalis LK**. Anatomically correct three-dimensional coronary artery reconstruction using frequency domain optical coherence tomographic and angiographic data: head-to-head comparison with intravascular ultrasound for endothelial shear stress assessment in humans. *Euro Intervention*. 2015 Aug;11(4):407-15. doi: 10.4244/EIJY14M06\_11. PubMed PMID: 24974809.
- 44: Siogkas PK, Papafaklis MI, Sakellarios AI, Stefanou KA, Bourantas CV, Athanasiou LS, Exarchos TP, Naka KK, **Michalis LK**, Parodi O, Fotiadis DI. Patient-specific simulation of coronary artery pressure measurements: an in vivo three-dimensional validation study in humans. *Biomed Res Int*. 2015;2015:628416. doi: 10.1155/2015/628416. Epub 2015 Mar 1. PubMed PMID: 25815328; PubMed Central PMCID: PMC4359837.
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- 53: Athanasiou L, Sakellarios AI, Bourantas CV, Tsirka G, Siogkas P, Exarchos TP, Naka KK, **Michalis LK**, Fotiadis DI. Currently available methodologies for the processing of intravascular ultrasound and optical coherence tomography images. *Expert Rev Cardiovasc Ther.* 2014 Jul;12(7):885-900. doi:10.1586/14779072.2014.922413. Review. PubMed PMID: 24949801.
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