

Complete List of Publications of Yves Zenou

April 12, 2012

Books as author

Zenou, Y. (2009), *Urban Labor Economics*. Cambridge: Cambridge University Press.

Zenou, Y., *Urban Economics. Course and Exercises with Answers*, in progress.

Calvó-Armengol, A., de Marti, J. and Y. Zenou, *Economics of Social Interactions. An Introduction with Applications to Crime and Labor Markets*, in progress.

Book as editor

M.O. Jackson and Y. Zenou (2012), *Economic Analyses of Social Networks*, The International Library of Critical Writings in Economics, London: Edward Elgar Publishing, forthcoming.

Published papers

1. M.O. Jackson and Y. Zenou (2012), "Games on networks", In: P. Young and S. Zamir (Eds.), *Handbook of Game Theory Vol. 4*, Amsterdam: Elsevier Publisher, forthcoming.
2. E. Patacchini and Y. Zenou (2012), "Ethnic networks and employment outcomes", *Regional Science and Urban Economics*, forthcoming.
3. Y. Zenou (2012), "Networks in Economics," In: *International Encyclopedia of Social and Behavioral Sciences, 2nd Edition*, Amsterdam: Elsevier Publisher, forthcoming.
4. M. Berliant and Y. Zenou (2012), "Labor differentiation and agglomeration in general equilibrium," *International Regional Science Review*, forthcoming.
5. Y. Song and Y. Zenou (2012), "Urban villages and housing values in China", *Regional Science and Urban Economics*, 42, 495-505.
6. E. Patacchini and Y. Zenou (2012), "Juvenile delinquency and conformism," *Journal of Law, Economics, and Organization*, 28, 1-31.

7. A. Bisin, E. Patacchini, T. Verdier and Y. Zenou (2011), "Formation and persistence of oppositional identities," *European Economic Review*, 55, 1046-1071.
8. Y. Zenou (2011), "Search, migration, and urban land use. The case of transportation policies," *Journal of Development Economics*, 96, 174-187.
9. A. Cabrales, A. Calvó-Armengol and Y. Zenou (2011), "Social interactions and spillovers," *Games and Economic Behavior*, 72, 339-360.
10. A. Bisin, E. Patacchini, T. Verdier and Y. Zenou (2011), "Errata Corrige: Are Muslim immigrants different in terms of cultural integration?" *Journal of the European Economic Association*, 9, 1012-1019.
11. E. Patacchini and Y. Zenou (2011), "Intergenerational education transmission: Neighborhood quality and/or parents' involvement?" *Journal of Regional Science*, 51, 987-1013.
12. A. Bisin, E. Patacchini, T. Verdier and Y. Zenou (2011), "Ethnic identity and labor-market outcomes of immigrants in Europe," *Economic Policy*, 26, 57-92.
13. H. Battu, P. Seaman and Y. Zenou (2011), "Job contact networks and the ethnic minorities," *Labour Economics*, 18, 48-56.
14. Y. Zenou (2011), "Rural-urban migration and unemployment. Theory and policy implications," *Journal of Regional Science*, 51, 65-82.
15. Y. Zenou (2011), "Search, wage posting, and urban spatial structure," *Journal of Economic Geography*, 11, 387-416.
16. J. de Martí and Y. Zenou (2011), "Social networks," In: I. Jarvie and J. Zamora-Bonilla (Eds.), *Handbook of Philosophy of Social Science*, London: SAGE Publications, Chap. 16, pp. 339-361.
17. M. König, C. Tessone and Y. Zenou (2010), "From assortative to dissortative networks: The role of capacity constraints", *Advances in Complex Systems*, 13, 483-499.
18. O. Åslund, J. Östh and Y. Zenou (2010), « How crucial is distance to jobs for ethnic minorities? Old question – Improved answer », *Journal of Economic Geography*, 10, 389-422.
19. H. Battu and Y. Zenou (2010), « Oppositional identities and employment for ethnic minorities. Evidence from England », *Economic Journal*, 120, F52-F71.

20. C. Ballester, A. Calvó-Armengol and Y. Zenou (2010), « Delinquent Networks », *Journal of the European Economic Association*, 8, 34-61.
21. P. Gautier and Y. Zenou (2010), « Car ownership and the labor market of ethnic minorities », *Journal of Urban Economics*, 67, 392-403.
22. A. Calvó-Armengol, E. Patacchini, and Y. Zenou (2009), « Peer effects and social networks in education », *Review of Economic Studies*, 76, 1239-1267.
23. Y. Song and Y. Zenou (2009), « How differences in property taxes within cities affect urban sprawl », *Journal of Regional Science*, 49, 801-831.
24. Y. Zenou (2009), « Search in cities », *European Economic Review*, 53, 607-624.
25. Y. Zenou (2009), « High-relocation costs in search-matching models. Theory and application to spatial mismatch », *Labour Economics*, 16, 534-546.
26. Y. Zenou (2009), « How common is integration policy in Europe? » in *How Unified in the European Union*, S. Gustavsson, L. Oxelheim, and Lars Pehrson (Eds.), Springer Verlag, pp. 139-155.
27. E. Patacchini and Y. Zenou (2009), « Urban sprawl in Europe », *Brookings-Wharton Papers on Urban Affairs*, 10, 125-149.
28. Y. Zenou (2009), « Endogenous job destruction and job matching in cities », *Journal of Urban Economics*, 65, 323-336.
29. E. Patacchini and Y. Zenou (2009), « On the sources of the black-white test score gap in Europe », *Economics Letters*, 102, 49-52.
30. A. Bisin, E. Patacchini, T. Verdier and Y. Zenou (2008), « Are Muslim immigrants different in terms of cultural integration? », *Journal of the European Economic Association*, 6, 445-456.
31. S. Ross and Y. Zenou (2008), « Are shirking and leisure substitutable? An empirical test of efficiency wages based on urban economic theory », *Regional Science and Urban Economics*, 38, 498-517.
32. Y. Zenou (2008), « Job search and mobility in developing countries. Theory and policy implications », *Journal of Development Economics*, 86, 336-355.
33. Y. Zenou (2008), « The spatial mismatch hypothesis », In: L. Blume and S. Durlauf (Eds.), *The New Palgrave, A Dictionary of Economics, Second Edition*, London: MacMillan Press.

34. Y. Zenou (2008), « Crime and the city », In: L. Blume and S. Durlauf (Eds.), *The New Palgrave, A Dictionary of Economics, Second Edition*, London: MacMillan Press.
35. Y. Song, Y. Zenou and C. Ding (2008), « Let's not throw the baby out with the bath water: The role of urban villages in housing rural migrants in China », *Urban Studies*, 45, 313-330.
36. E. Patacchini and Y. Zenou (2008), « The strength of weak ties in crime », *European Economic Review*, 52, 209-236.
37. L. Gobillon, H. Selod and Y. Zenou (2007), « The mechanisms of spatial mismatch », *Urban Studies*, 44, 2401-2427.
Reprinted in *Housing Economics*, A. Marsh and K. Gibb (eds.), Sage Publication, 2011.
38. H. Battu, M. McDonald and Y. Zenou (2007), « Oppositional identities and the labor market », *Journal of Population Economics*, 20, 643-667.
39. E. Patacchini and Y. Zenou (2007), « Spatial dependence in local unemployment rates », *Journal of Economic Geography*, 7, 169-191.
40. Y. Song, Y. Zenou, and C. Ding (2007), « The role of China's urbanizing villages in housing rural migrants », in *Urbanization in China. Critical Issues in an Era of Rapid of Rapid Growth*, Y. Song and C. Ding (Eds.), Chap. 7, pp. 145-168.
41. A. Calvó-Armengol, T. Verdier and Y. Zenou (2007), « Strong ties and weak ties in employment and crime », *Journal of Public Economics*, 91, 203-233.
42. C. Ballester, A. Calvó-Armengol and Y. Zenou (2006), « Who's who in networks. Wanted: the key player », *Econometrica*, 74, 1403-1417.
43. Y. Song and Y. Zenou (2006), « Property tax and urban sprawl. Theory and implications for U.S. cities », *Journal of Urban Economics*, 60, 519-534.
44. H. Selod and Y. Zenou (2006), « City-structure, job search, and labor discrimination. Theory and policy implications », *Economic Journal*, 116, 1057-1087.
45. M. Jellal and Y. Zenou (2006), « Ethnic diversity, market structure and risk sharing in developing countries », *Research in Labor Economics*, 24, 397-426.
46. Y. Zenou (2006), « Efficiency wages and unemployment in cities: The case of high relocation costs », *Regional Science and Urban Economics*, 36, 49-71.

47. Y. Zenou (2006), « Urban labor economic theory », in *A Companion to Urban Economics*, R. Arnott and D. McMillen (eds.), Boston: Blackwell Publishing, Chap. 25, pp. 418-439.
48. E. Wasmer and Y. Zenou (2006), « Equilibrium search unemployment with explicit spatial frictions », *Labour Economics*, 13, 143-165.
49. E. Patacchini and Y. Zenou (2006), « Search intensity, cost of living and local labor markets in Britain », *Regional Science and Urban Economics*, 36, 227-248.
50. A. Calvó-Armengol and Y. Zenou (2005), « Job matching, social network and word-of-mouth communication », *Journal of Urban Economics*, 57, 500-522.
51. M. Jellal, J-F. Thisse and Y. Zenou (2005), « Demand uncertainty, mismatch and unemployment », *Economics Letters*, 88, 33-39. Erratum published in *Economics Letters*, 89, 248-254.
52. M. Kugler, T. Verdier and Y. Zenou (2005), « Organized crime, corruption and punishment », *Journal of Public Economics*, 89, 1639-1663.
53. J. Wahba and Y. Zenou (2005), « Density, social networks and job search methods: Theory and applications to Egypt », *Journal of Development Economics*, 78, 443-473.
54. E. Patacchini and Y. Zenou (2005), « Spatial mismatch, transport mode and search decisions in England », *Journal of Urban Economics*, 58, 62-90.
55. T. Verdier and Y. Zenou (2004), « Racial beliefs, location and the causes of crime », *International Economic Review*, 45, 731-760.
56. A. Calvó-Armengol and Y. Zenou (2004), « Social networks and crime decisions. The role of social structure in facilitating delinquent behavior », *International Economic Review*, 45, 939-958.
57. J.K. Brueckner and Y. Zenou (2003), « Space and unemployment: The labor-market effects of spatial mismatch », *Journal of Labor Economics*, 21, 242-266.
58. T.E. Smith and Y. Zenou (2003), « A discrete-time stochastic model of job matching », *Review of Economics Dynamics*, 6, 54-79.
59. H. Selod and Y. Zenou (2003), « Private versus public schools in post-Apartheid South African cities. Theory and policy implications », *Journal of Development Economics*, 71, 351-394.
60. Y. Zenou (2003), « The spatial aspects of crime », *Journal of the European Economic Association*, 1, 459-467.

61. T.E. Smith and Y. Zenou (2003), « Spatial mismatch, search effort and urban spatial structure », *Journal of Urban Economics*, 54, 129-156.
62. A. Calvó-Armengol and Y. Zenou (2003), « Does crime affect unemployment? The role of social networks », *Annales d'Economie et de Statistique*, 71-72, 173-188.
63. J.K. Brueckner, J-F. Thisse and Y. Zenou (2002), « Local labor markets, job matching and urban location », *International Economic Review*, 43, 155-171.
64. X. Wauthy and Y. Zenou (2002), « How does imperfect competition in the labor market affect unemployment policies? », *Journal of Public Economic Theory*, 4, 417-436.
65. E. Wasmer and Y. Zenou (2002), « Does city structure affect search and welfare? », *Journal of Urban Economics*, 51, 515-541.
66. A. Calvó-Armengol and Y. Zenou (2002), « The importance of the distribution of consumers in horizontal product differentiation », *Journal of Regional Science*, 42, 793-803.
67. Y. Zenou (2002), « How do firms redline workers? », *Journal of Urban Economics*, 52, 391-408.
68. H. Selod and Y. Zenou (2001), « Location and education in South African cities under and after Apartheid », *Journal of Urban Economics*, 49, 168-198.
69. S. Steinmetz and Y. Zenou (2001), « On the existence of spatial monopolies under free entry », *Economics Bulletin*, 4, 1-10.
70. H. Selod and Y. Zenou (2001), « Social interactions, ethnic minorities and urban unemployment », *Annales d'Economie et de Statistique*, 63-64, 183-214.
71. Y. Zenou (2000), « Unemployment in Cities », in *Economics of Cities. Theoretical Perspectives*, J-M.Huriot and J-F.Thisse (eds.), Cambridge: Cambridge University Press, ch. 10, pp. 343-389.
72. X. Wauthy and Y. Zenou (2000), « How the adoption of a new technology is affected by the interaction between labour and product markets », in *Market Structure and Competition Policy. Game-Theoretical Approaches*, G.Norman and J-F.Thisse (eds.), Cambridge: Cambridge University Press, ch. 12, pp. 271-286.
73. J. Hamilton, J-F. Thisse and Y. Zenou (2000), « Wage competition with heterogeneous workers and firms », *Journal of Labor Economics*, 18, 453-472.

74. M. Jellal and Y. Zenou (2000), « A dynamic model of efficiency wage with learning by doing », *Economics Letters*, 66, 99-105.
75. Y. Zenou (2000), « Urban unemployment, agglomeration and transportation policies », *Journal of Public Economics*, 77, 97-133.
76. Y. Zenou and N. Boccoard (2000), « Racial discrimination and redlining in cities », *Journal of Urban Economics*, 48, 260-285.
77. J-F. Thisse and Y. Zenou (2000), « Skill mismatch and unemployment », *Economics Letters*, 69, 415-420.
78. J.K. Brueckner, J-F. Thisse and Y. Zenou (1999), « Why is central Paris rich and downtown Detroit poor? An amenity-based theory », *European Economic Review*, 43, 91-107.
Reprinted in *Recent Developments in Urban and Regional Economics*, P.C. Cheshire and G. Duranton (eds.), The International Library in Critical Writings in Economics, Edward Elgar Publishers, pp. 55-71, 2004.
Reprinted in *Housing Economics*, A. Marsh and K. Gibb (eds.), Sage Publication, 2011.
79. J.K. Brueckner and Y. Zenou (1999), « Harris-Todaro models with a land market », *Regional Science and Urban Economics*, 29, 317-339.
80. M. Jellal and Y. Zenou (1999), « Efficiency wages and the quality of the job matching », *Journal of Economic Behavior and Organization*, 39, 201-217.
81. J-F. Thisse and Y. Zenou (1998), « How to finance education when the labor force is heterogeneous? », in *Creation and Transfer of Knowledge: Institutions and Incentives*, G.Barba Navaretti, P.Dasgupta, K-G.Mäler and D.Siniscalco (eds.), Berlin: Springer Verlag, ch.7, pp. 209-223.
82. T.E. Smith and Y. Zenou (1997), « Dual labor markets, urban unemployment and multicentric cities », *Journal of Economic Theory*, 76, 185-214.
83. M. Fujita, J-F. Thisse and Y. Zenou (1997), « On the endogeneous formation of secondary employment centers in a city », *Journal of Urban Economics*, 41, 337-357.
84. Y. Zenou and L. Eeckhoudt (1997), « Bid rents under unemployment risk: delayed versus timeless uncertainty », *Journal of Urban Economics*, 42, 42-63.
85. F. Gannon and Y. Zenou (1997), « Segregation and labor discrimination in cities », *Annales d'Economie et de Statistique*, 45, 233-249.

86. Y. Zenou and T.E. Smith (1995), « Efficiency wages, involuntary unemployment and urban spatial structure », *Regional Science and Urban Economics*, 25, 547-573.

Other publications (in French, Swedish, and Chinese)

87. M. Stenkula and Y. Zenou (2012), “Städer, tjänster and tillväxt,” In: H. Jordahl (Ed.), *Den svenska tjänstesektorn*, Stockholm: Studentlitteratur, forthcoming.
88. Y. Zenou (2011), “Housing policies in China: Issues and options,” *Comparative Studies* 54, 148-174. (In Chinese)
89. M. Stenkula and Y. Zenou (2011), “Städer och entreprenörskap » *Ekonomisk Debatt*, No. 3, pp. 5-19.
90. M. Stenkula and Y. Zenou (2010), “Städer och tillväxt: Vad säger forskningen?” *Rapport för Tillväxtanalys*.
91. Y. Zenou (2009), “Hur gemensam är den europeiska gemenskapen? » in S. Gustavsson, L. Oxelheim and L. Pehrson (Eds.), *Hur gemensam är den europeiska gemenskapen? Europaperspektiv 2009*, Stockholm: Santérus förlag, pp. 207-230.
92. Y. Zenou (2009), “Lokaliseringsteori,” In: J. Häckner, A. Jakobsson and A. Muren (Eds.), *Tillämpad Mikroekonomi*, Lund: Studentlitteratur, pp. 197-210.
93. A. Sjögren and Y. Zenou (2007), “Vad förklarar invandras integration på arbetsmarknaden? En teoriöversikt », *Rapport för Integrationsverket*.
94. A. Sjögren and Y. Zenou (2007), “Integration eller utanförskap? En teoriöversikt », *Ekonomisk Debatt*, No. 3, pp. 7-20.
95. Y. Zenou, O. Åslund, and J. Östh (2006), “Hur viktig är närheten till jobb för chanserna på arbetsmarknaden? », *Ekonomisk Debatt*, No. 6, pp. 31-42.
96. Y. Zenou (2004), “Les inégalités dans la ville », in F. Maurel, A. Perrot, J-C. Prager, J-F. Thisse (Eds.), *Villes et Economie*, Institut des Villes, La Documentation Française, ch.4, pp. 109-128.
97. E. Wasmer and Y. Zenou (2003), “Discrimination et inégalités : Introduction », *Annales d'Economie et de Statistique*, No. 71-72, 1-8.
98. E. Wasmer, J-F. Thisse and Y. Zenou (2003), “Ségrégation urbaine, logement et marchés du travail », *Revue Française d'Economie*, vol. 14, n° 4, 85-129.

99. F. Gofette-Nagot, I. Thomas and Y. Zenou (2000), "Structure urbaine et revenus des ménages », in *Economie Géographique. Les Théories à l'Epreuve des Faits*, C.Beaumont, P-P.Combes, P-H.Derycke, H.Jayet (Eds.), Paris: Economica, ch.10, pp. 277-302.
100. Y. Zenou (2000), "Externalités spatiales, économies d'agglomération et formation endogène d'une ville monocentrique », *Annales d'Economie et de Statistique*, 58, 233-251.
101. I. Thomas and Y. Zenou (1999), "Ségrégation urbaine et discrimination sur le marché du travail : le cas de Bruxelles », in *Emploi, Concurrence et Concentration Spatiales*, J-Y.Lesueur, M.Catin and Y.Zenou (Eds.), Paris: Economica, ch.5, pp. 105-127.
102. X. Wauthy and Y. Zenou (1999), "Le rôle de l'hétérogénéité des agents sur un marché du travail en concurrence imparfaite », *Revue Economique*, 50, 965-984.
103. Y. Zenou (1999) "Comment lutter contre le chômage lorsque les travailleurs sont hétérogènes? », *L'Actualité Economique*, 75, 519-536.
104. J-F. Thisse and Y. Zenou (1998), "Impact de la formation des salaires sur la structure résidentielle », *Revue Economique*, 49, 891-899.
105. J-F. Thisse and Y. Zenou (1997), "Segmentation et marchés locaux du travail », *Economie et Prévision*, 131, 65-76.
106. Y. Zenou (1997), « Différences intra-urbaines de salaires: le rôle du marché local du travail », *Région et Développement*, 6, 103-131
107. Y. Zenou (1996) « La théorie du salaire d'efficience: de nouveaux fondements microéconomiques dans la détermination des salaires et du chômage », in *Marchés internes du travail: de la microéconomie à la macroéconomie*, G.Ballot (éd.), Paris: PU F, ch.5, pp. 205-271.
108. Y. Zenou (1996), « Marché du travail et économie urbaine: essai d'intégration », *Revue Economique*, 47, 263-288.
109. G. Ballot and Y. Zenou (1996), « Appariements et rotation Une analyse des démissions et des licenciements", in *Marchés internes du travail: de la microéconomie à la macroéconomie*, G.Ballot (Ed.), Paris: PU F, ch.4, pp. 177-201.
110. Y. Zenou (1996), « Différences de salaires et de taux de chômage entre régions », *Revue Economique*, 47, 643-654.

111. Y. Zenou (1995), « Migration et chômage urbain dans les pays en développement: une approche théorique », *Revue d'Economie Politique*, 105, 293-314.
112. J-F. Thisse and Y. Zenou (1995), « Un modèle de concurrence spatiale avec appariement », *Revue Economique*, 46, 615-624.
113. Y. Zenou (1994), « Salaire d'efficience et politique de l'emploi. Une étude de quelques propositions », *Economie et Prévision*, 115, 117-124.
114. G. Ballot and Y. Zenou (1992), « Appariement et rotation de la main d'œuvre : une analyse théorique et économétrique sur données de panel d'entreprises », *Economie et Prévision*, 102/103, 129-142.
115. P. Batifoulier, L. Cordonnier and Y. Zenou (1992), « L'emprunt de la théorie économique à la tradition sociologique: le cas du don contre-don », *Revue Economique*, 43, 917-946.

Articles in revise and resubmit status

1. J. de Marti and Y. Zenou (2011) "Friendship formation, oppositional identity, and segregation", CEPR Discussion Paper No. 7566, Revise and resubmit at the *Journal of Economics Behavior and Organization*.
2. M. Saez-Marti and Y. Zenou (2011), "Cultural transmission, discrimination, and peers". CEPR Discussion Paper No. 7622, Revise and resubmit at the *Journal of Urban Economics*.
3. J. Wahba and Y. Zenou (2011), "Out of Sight, out of mind: Migration, entrepreneurship and social capital", CEPR Discussion Paper No. 7552, Revise and resubmit at *Regional Science and Urban Economics*.
4. E. Cohen-Cole, E. Patacchini and Y. Zenou (2011), "Systemic risk and network formation in the interbank market", CEPR Discussion Paper No. 8332, Revise and resubmit at the *Review of Financial Studies*.
5. V. Dequiedt and Y. Zenou (2011), "International Migration, Imperfect Information, and Brain Drain", CEPR Discussion Paper No. 8459, Revise and resubmit at the *Journal of Development Economics*.

Articles submitted to journals and working papers

6. M. König, C. Tessone and Y. Zenou (2011), "Nestedness in networks: A theoretical model and some applications", Revised version of CEPR Discussion Paper No. 7521.

7. X. Liu, E. Patacchini, Y. Zenou and L-F. Lee (2012), “Criminal networks: Who is the key player?” CEPR Discussion Paper No. 8772.
8. Y. Zenou (2011), “Spatial versus social mismatch: The strength of weak ties”, CEPR Discussion Paper No. 8260.
9. S. Bervoets, A. Calvó-Armengol, and Y. Zenou (2012), “The role of social networks and peer effects in education transmission”, CEPR Discussion Paper No. 8932.
10. R. Helsley and Y. Zenou (2011), “Social networks and interactions in cities”, CEPR Discussion Paper No. 8244.
11. E. Patacchini, E. Rainone and Y. Zenou (2011), “Dynamic aspects of teenage friendships and educational attainment”, CEPR Discussion Paper No. 8223.
12. E. Patacchini and Y. Zenou (2011), “Social networks and parental behavior in the intergenerational transmission of religion”, CEPR Discussion Paper No. 8443.
13. X. Liu, E. Patacchini and Y. Zenou (2012), “Peer effects in education, sport and screen activities. Local aggregate or local average?”, CEPR Discussion Paper No. 8477.
14. E. Patacchini and Y. Zenou (2011), “Ethnicity and crime in London”.
15. A. Bisin, E. Patacchini, T. Verdier and Y. Zenou (2010), “*Bend it like Beckham*. Ethnic identity and integration”, CEPR Discussion Paper No. 8054.
16. C. Ballester and Y. Zenou (2011), “Key player policies when contextual effects matter”.
17. C. Ballester, A. Calvó-Armengol and Y. Zenou (2011), “Education policies when networks matter”.

Works in progress

18. M. König and Y. Zenou, “Identifying key players in R&D alliance networks”.
19. J. de Marti and Y. Zenou, “Networks games under incomplete information”.
20. M.O. Jackson, X. Yu and Y. Zenou, “Homophily and education”.
21. E. Cohen-Cole, X. Liu and Y. Zenou, “Multivariate choice and identification of social interactions”.
22. T. Verdier and Y. Zenou, “Slums and crime in developing cities”.

23. C. Gaigné and Y. Zenou, “Agglomeration and crime”.
24. B. Rogers and Y. Zenou, “Crime and social interactions: Is crime contagious?”.
25. V. Dequiedt and Y. Zenou, “Illegal immigration and immigration policy enforcement.”
26. A. Cabrales and Y. Zenou, “Social interactions and crime”.