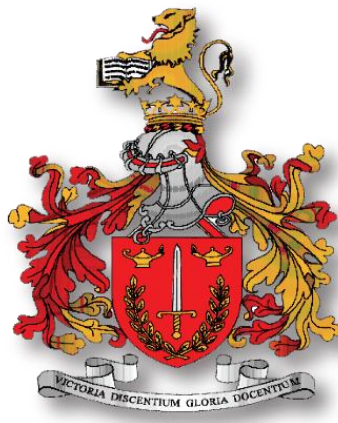


INSTITUTO SUPERIOR DE CIÊNCIAS POLICIAIS E SEGURANÇA INTERNA



O PAPEL DA PSP NAS MEDIDAS CONTRA *DRONES*

ESTUDO DE REVISÃO

Trabalho Individual Final

4.º Curso de Comando e Direção Policial

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Referências bibliográficas

- Abbott, C., Clarke, M., Hathorn, S., & Hickie, S. (2016). *Hostile drones: Supplementary risk assessment*. Open Briefing. <https://www.openbriefing.org/publications/report-and-articles/hostile-drones-supplementary-risk-assessment/>
- Barrows, R. S. (2021). Drones and law enforcement. *Drone Law and Policy*, 55–78.
- Bartsch, R., Coyne, J., & Gray, K. (2017). *Drones in society: Exploring the strange new world of unmanned aircraft*. Routledge.
- Birch, G. C., Griffin, J. C., & Erdman, M. K. (2015). *UAS detection classification and neutralization: Market survey 2015*. Sandia National Lab. <https://www.osti.gov/biblio/1222445-uas-detection-classification-neutralization-market-survey>
- Bradley, W. (2020, December 19). *Gatwick drone incident: How things have changed two years on and what happened with investigation*. Surrey Live. <https://www.getsurrey.co.uk/news/surrey-news/gatwick-drone-incident-how-things-19473462>
- Brooks, S. H., Jacobus, C., Kouhestani, C., Stikar, J., & Faye, E. (2019). *Counter-unmanned aircraft systems market survey*. <https://www.osti.gov/servlets/purl/1761916/>
- Clemente, C., Fioranelli, F., Colone, F., & Li, G. (2021). *Radar countermeasures for unmanned aerial vehicles*. SciTech Publishing.
- Colton, J. (2019, March 26). *The limitations of RF jammers for stopping rogue drones*. Fortem Technologies. <https://fortemtech.com/blog/rf-jamming-limitations-rogue-drones/>
- Custers, B. (2016). Drones here, there and everywhere introduction and overview. *Information Technology and Law Series*, 27, 3–20.
- Daniels, J. P. (2018, August 5). *Venezuela's Nicolás Maduro survives apparent assassination attempt*. The Guardian. <https://www.theguardian.com/world/2018/aug/04/nicolas-maduros-speech-cut-short-while-soldiers-scatter>
- Decreto-Lei n.º 58/2018 da Presidência do Conselho de Ministros. (2018). Diário da República n.º 140/2018, Série I de 2018-07-23, páginas 3679 – 3684.
- Drummond, M. (2021, June 25). *What happened during the Gatwick Airport drone incident?* Evening Standard. <https://www.standard.co.uk/news/uk/gatwick-airport-sussex-police-witness-sussex-army-b942585.html>

- Ellis, J., & Barrows, R. S. (2021). Global terrorism and security. *Drone Law and Policy*, 133–139.
- Euronews. (2013, September 17). *Germany: Pirate Party behind drone stunt at Merkel rally - YouTube*. <https://www.youtube.com/watch?v=WcFiMCMbUHo>
- Falcão, C. (2014, October 15). *Sérvia e Albânia não terminam jogo de futebol devido a drone com mapa do Kosovo*. Observador. <https://observador.pt/2014/10/15/servia-e-albania-nao-terminam-jogo-de-futebol-devido-drone-com-mapa-kosovo/>
- Fiegel, B. (2017, May 7). *Narco-drones: A new way to transport drugs*. Small Wars Journal. <https://smallwarsjournal.com/jrnl/art/narco-drones-a-new-way-to-transport-drugs>
- Fitzpatrick, A. (2018, May 31). *Drones are here to stay. Get used to it*. Time. <https://time.com/longform/time-the-drone-age/>
- Garg, P. K. (2021). *Unmanned aerial vehicles: An introduction*. Mercury Learning & Information.
- Gliadkovskaya, A. (2018, July 3). *Greenpeace activists pilot and crash drone into french nuclear plant's no-fly zone*. Euronews. <https://www.euronews.com/2018/07/03/greenpeace-activists-pilot-and-crash-drone-into-french-nuclear-plant-s-no-fly-zone>
- Hambling, D. (2016, December 9). *How Islamic State is using consumer drones*. BBC. <https://www.bbc.com/future/article/20161208-how-is-is-using-consumer-drones>
- Hartmann, M. (2015, January 26). *Secret Service can't protect White House from drones*. Intelligencer. <https://nymag.com/intelligencer/2015/01/white-house-defenseless-against-drones.html>
- Heine, V. F. (2013, September 16). *Merkel campaign event visited by mini Drone*. Der Spiegel. <https://www.spiegel.de/international/germany/merkel-campaign-event-visited-by-mini-drone-a-922495.html>
- Holligan, A. (2016, September 12). *Dutch police fight drones with eagles*. BBC News. <https://www.bbc.com/news/world-europe-37342695>
- Kentaurus G1V – Kentaurus: Detectar & Defender*. (n.d.). Retrieved November 4, 2021, from <https://www.kentaurus.es/kentaurus-g1v/>
- Knight, J. (2019). *Countering unmanned aircraft systems*. Naval Postgraduate School. <https://calhoun.nps.edu/handle/10945/63997>
- Lei n.º 53/2007 da Assembleia da República. (2007). Diário da República n.º 168/2007, Série I de 2007-08-31, páginas 6065 – 6074.
- Lei n.º 53/2008 da Assembleia da República. (2008). Diário da República n.º 167/2008, Série I de 2008-08-29, páginas 6135 – 6141.

- Limer, E. (2015, August 6). *How to shoot down a drone*. Popular Mechanics. <https://www.popularmechanics.com/flight/drones/how-to/a16756/how-to-shoot-down-a-drone/>
- Lune, H., & Berg, B. L. (2017). *Qualitative research methods for the social sciences*. Pearson.
- Martins, B. O., Michel, A. H., & Silkoset, A. (2020). Countering the drone threat implications of C-UAS technology for Norway in an EU and NATO context. *Prio Paper*. <https://www.prio.org/utility/DownloadFile.ashx?id=2013&type=publicationfile>
- Miasnikov, E. (2005). *Threat of terrorism using unmanned aerial vehicles: Technical aspects*. Center for Arms Control, Energy and Environmental Studies at MIPT.
- Michaelides-Mateou, S. (2016). Terrorism and national security. *Information Technology and Law Series*, 27, 153–170.
- Michel, A. H. (2019). *Counter-drone systems* (2nd Ed.). Center for the Study of the Drone at Bard College.
- NL Times. (2017, December 7). *Dutch police drops drone-hunting eagles project*. <https://nltimes.nl/2017/12/07/dutch-police-drops-drone-hunting-eagles-project>
- Palmer, T. S., & Geis, J. P. (2017). Defeating small civilian unmanned aerial systems to maintain air superiority. *Air & Space Power Journal*, 31(2), 102–118.
- Patel, B., & Rizer, D. (2019). *Counter-unmanned aircraft systems technology guide*. National Urban Security Technology Laboratory. https://www.dhs.gov/sites/default/files/publications/c-uas-tech-guide_final_28feb2020.pdf
- Pledger, T. G. (2019). The role of drones in future terrorist attacks. *Land and Warfare Paper*, 137.
- Pradier, P. (2018, July 3). *Greenpeace intentionally crashes drone into french nuclear power plant to reveal security vulnerability*. ABC News. <https://abcnews.go.com/International/greenpeace-intentionally-crashes-drone-french-nuclear-power-plant/story?id=56343027>
- Rassler, D. (2016). *Remotely piloted innovation: Terrorism, drones and supportive technology*. Combating Terrorism Center at West Point. <https://ctc.usma.edu/wp-content/uploads/2016/10/Drones-Report.pdf>
- Regulamento n.º 1093/2016 da Autoridade Nacional da Aviação Civil. (2016). Diário da República n.º 238/2016, Série II de 2016-12-14.

- Robinson, M., & Koleka, B. (2014, October 15). *Drone stunt at Serbia-Albania soccer match causes diplomatic row*. Reuters. <https://www.reuters.com/article/us-serbia-albania-soccer-idUSKCN0I41HE20141015>
- Schmersahl, A. R. (2018). *Fifty feet above the wall: Cartel drones in the US-Mexico border zone airspace, and what to do about them*. Naval Postgraduate School.
- Schmidt, M. S., & Shear, M. D. (2015, January 26). *A Drone, too small for radar to detect, rattles the White House*. The New York Times. <https://www.nytimes.com/2015/01/27/us/white-house-drone.html>
- Schroth, L. (2020, June 22). *Drone market size 2020-2025: 5 key takeaways*. <https://droneii.com/the-drone-market-size-2020-2025-5-key-takeaways>
- Smith, S. (2018, August 6). *Venezuela detains 6 in failed drone attack aimed at Maduro*. Associated Press. <https://apnews.com/article/miami-financial-markets-caribbean-ap-top-news-venezuela-f5516be725fc4567a3f409a90a0526fc>
- Snead, J., Seibler, J.-M., & Inserra, D. (2018). Establishing a legal framework for counter-drone technologies. In *Backgrounder* (Vol. 3305). <http://report.heritage.org/bg3305>
- Tarr, A. A., & Paynter, K. (2021). Drones-delivering value to the economy. *Drone Law and Policy*, 17–34.
- Vergouw, B., Nagel, H., Bondt, G., & Custers, B. (2016). Drone technology: Types, payloads, applications, frequency spectrum issues and future developments. *Information Technology and Law Series*, 27, 21–45.
- Wall Street Journal. (2014, October 15). *Serbia, Albania soccer game abandoned after drone incident*. https://www.youtube.com/watch?v=uE5f0_FaS_k
- Walters, M. D. (2016). *Countering the emerging small UAS threat: The case for a coherent canadian counter-SUAS strategy*. Canadian Forces College. <https://www.cfc.forces.gc.ca/259/290/318/286/walters.pdf>

- Robinson, M., & Koleka, B. (2014, October 15). *Drone stunt at Serbia-Albania soccer match causes diplomatic row*. Reuters. <https://www.reuters.com/article/us-serbia-albania-soccer-idUSKCN0I41HE20141015>
- Schmersahl, A. R. (2018). *Fifty feet above the wall: Cartel drones in the US-Mexico border zone airspace, and what to do about them*. Naval Postgraduate School.
- Schmidt, M. S., & Shear, M. D. (2015, January 26). *A Drone, too small for radar to detect, rattles the White House*. The New York Times. <https://www.nytimes.com/2015/01/27/us/white-house-drone.html>
- Schroth, L. (2020, June 22). *Drone market size 2020-2025: 5 key takeaways*. <https://droneii.com/the-drone-market-size-2020-2025-5-key-takeaways>
- Smith, S. (2018, August 6). *Venezuela detains 6 in failed drone attack aimed at Maduro*. Associated Press. <https://apnews.com/article/miami-financial-markets-caribbean-ap-top-news-venezuela-f5516be725fc4567a3f409a90a0526fc>
- Snead, J., Seibler, J.-M., & Inserra, D. (2018). Establishing a legal framework for counter-drone technologies. In *Backgrounder* (Vol. 3305). <http://report.heritage.org/bg3305>
- Tarr, A. A., & Paynter, K. (2021). Drones-delivering value to the economy. *Drone Law and Policy*, 17–34.
- Vergouw, B., Nagel, H., Bondt, G., & Custers, B. (2016). Drone technology: Types, payloads, applications, frequency spectrum issues and future developments. *Information Technology and Law Series*, 27, 21–45.
- Wall Street Journal. (2014, October 15). *Serbia, Albania soccer game abandoned after drone incident*. https://www.youtube.com/watch?v=uE5f0_FaS_k
- Walters, M. D. (2016). *Countering the emerging small UAS threat: The case for a coherent canadian counter-SUAS strategy*. Canadian Forces College. <https://www.cfc.forces.gc.ca/259/290/318/286/walters.pdf>