

# Title

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## Abstract

Hybrid satellite aerial terrestrial networks (HSATNs) are a promising solution towards tackling coverage and mobility issues in sixth generation (6G) networks. This paper presents a novel transmission scheme in the context of HSATNs, which allows pairs of terrestrial users to be simultaneously served via the satellite and the aerial base station (ABS). To this aim, non-orthogonal multiple access (NOMA) technique is adopted, at the ABS, by applying a rule-based hybrid NOMA and orthogonal multiple access (OMA) schemes. Comparisons between a standalone NOMA-based satellite transmission and the proposed method, reveal that significant sum-rate gains can be harvested under varying system parameters.

**Keywords:** keyword 1; keyword 2; keyword 3 (List three to ten pertinent keywords specific to the article; yet reasonably common within the subject discipline.)

## 1. Introduction

The sixth generation (6G) network has already been commenced as a new research initiative, following on from the evolving 5G network. This new type of network envisions sophisticated device-to-device (D2D) and machine-to-machine (M2M) communications, innovative artificial intelligence (AI) techniques, Internet of Everything (IoE) applications connecting people, data, things through processes. Interoperability and convergence between terrestrial and satellite infrastructures will be a prerequisite in the 6G networking. Also, the new space era of non-terrestrial networks (NTNs) comprising of aerial networks, low Earth orbit (LEO) and especially very low Earth orbit (VLEO) satellites has emerged, enabling the path to 6G evolution.

Hybrid satellite-terrestrial networks (HSTNs) have been proposed as an efficient approach towards improving spectral efficiency and increasing the users' reliability all over the world. The available spectrum resources of these networks can be further exploited by adopting the non-orthogonal multiple access (NOMA) principle. However, in the absence of line-of-sight (LoS) conditions, the performance of satellite communication systems is severely deteriorating.

In the context of HSTNs, the unmanned aerial vehicle (UAV)-based communications are expected to improve the performance in various ways. In general, the UAV-aided NOMA schemes have gained the interest of the academia and the industry for various applications in the beyond 5G networks. Focusing on the scenario where the UAVs are adopted in satellite terrestrial communication networks, they could be employed in the NOMA scheme as an intermediate node for increasing the possibility of obtaining LoS conditions.

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All-in-all, and to the best of our knowledge, no studies can be found related to the intelligent integration of aerial and satellite segments in 6G networks by utilizing a hybrid NOMA and orthogonal multiple access (OMA) transmission schemes. Motivated by this observation, in this paper, we propose a novel satellite aerial terrestrial cooperative network scheme, which will be termed SATCON. More specifically, SATCON is formed with the integration of aerial base station (ABS) in the existing satellite network by efficiently combining two unsupervised machine learning (ML) algorithms, namely k-means and k-medoids. Furthermore, the proposed system promotes efficient cooperation between ABS and satellite through an innovative hybrid NOMA/OMA approach, avoiding the waste of resources and energy.Compared to standalone satellite NOMA transmission with optimal user pairing, namely SAT-NOMA, SATCON increases the sum rate and, at the same time, provides higher spectral efficiency for varying satellite channel conditions and ABS bandwidth.

## 2. Materials and Methods

### 2.1. Topology

A network consisting of a VLEO satellite as part of a VLEO satellite constellation, an ABS, and  $N = 2K$  mobile terminals (MTs), uniformly distributed within the ABS coverage area  $W$  is considered.Furthermore, the ABS and the MTs are within the coverage area of the VLEO satellite.Each  $M_i$  ( $1 \leq i \leq N$ ) has coordinates  $U = \{u_1, u_2, \dots, u_N\} \in W$ , where  $u_i = (x_i^u, y_i^u, z_i^u)$ . The MTs receive their data directly via the satellite link and through the decode and forward (DF) ABS relay, via the air to ground (A2G) link. The satellite is equipped with an antenna with transmit gain  $G_t^s$ , and total available transmit power  $P_s$ . Also, the satellite downlink operates at a frequency  $f_s$ , and the total available bandwidth is  $B_s$ .Furthermore, the ABS is equipped with two antennas, one for the reception of the satellite signals via the satellite to air (S2A) link (with an antenna gain denoted as  $G_r^s$ ) and one for re-transmitting the satellite signals to the MTs via the A2G link (with a gain  $G_t^d$ ). The operating frequency of the A2G links, i.e., between ABS and MTs, is  $f_d \neq f_s$ , and the total available bandwidth is  $B_d$ . Each  $MT_i$  has two antennas, one for the reception of the satellite signal with gain  $G_r^s$  and another for the reception of the ABS signal with gain  $G_r^d$ .The A2G and satellite signals are received by the MTs simultaneously.

From the system point of view, we consider a zero touch commissioning (ZTC) cloud radio access network (C-RAN) model consisting of a control element that performs automated resource discovery and manages the ZTC procedures in the cloud control center, such as the instantiation, configuration, and synchronization of SATCON.Finally, the formed ondemand 6G network consists of ultra-reliable low latency communication (URLLC) and enhanced mobile broadband (eMBB) network slices responsible for routing the control and data plane information, respectively.

### 2.2. Channel model

The fading environment for the land mobile satellite (LMS) channel is described through the Loo's model distribution, where the power of the LoS component is log-normally distributed with parameters  $(\alpha, \psi)$ , while the power of the multipath component (MP) follows the Rayleigh distribution with the channel complex coefficient being represented by  $h_i^s$  for each  $MT_i$  assuming zero mean and variance  $\sigma_s^2 = \sqrt{0.5 \cdot 10^{MP/10}} \sim \mathcal{N}(0, \sigma_s^2)$ .Also, path loss attenuation using the free space path loss (FSL) model is considered being denoted as  $L_i^{FS}$  for each  $MT_i$ .In addition, a maximum Doppler shift of 40 kHz is assumed and modeled with the Jakes model.

Regarding the A2G link between the ABS and the MTs, the multipath fading is modeled by the Rayleigh distribution with zero mean and unit variance  $\sim \mathcal{N}(0, 1)$ . The channel

complex coefficient is  $h_i^d$  for each  $MT_i$ . Also, path loss attenuation of the ABS's signal is modeled using the elevation angle based path loss model, in an urban environment, and it is expressed as follows

$$L_i^{\text{A2G}}(h, r_i) = 20 \log\left(\frac{4\pi y_i f_d}{c}\right) + \eta_{\text{LoS}} P_{\text{LoS}}(h, r_i) + \eta_{\text{NLoS}}(1 - P_{\text{LoS}}(h, r_i)), \quad (1)$$

where  $h$  is the altitude of the ABS,  $r_i$  is the 2D Euclidean distance between ABS and  $MT_i$ ,  $y_i = \sqrt{r_i^2 + h^2}$  is the direct link that connects the ABS and the  $MT_i$ , and  $c$  is the speed of light. Moreover,  $P_{\text{LoS}}$  denotes the LoS probability between the ABS and  $MT_i$  and  $\eta_{\text{LoS}}$  are the coefficients describing the propagation environment. In addition, concerning the S2A channel between the satellite and the ABS, the path loss attenuation is modeled using the FSL model and it is denoted as  $L_{sd}^{\text{FS}}$ .

Furthermore, the LMS, A2G, and S2A links are degraded by additive white Gaussian noise (AWGN). The noise power is calculated as the product of the Boltzmann constant  $\kappa$ , the receiver system temperature  $T_g$ , where  $g = \{s, d\}$  and the available bandwidth  $B_g$ . Thus, the noise power of the satellite and aerial receiver at each MT is equal to and  $N_s = \kappa T_s B_s$  and  $N_d = \kappa T_d B_d$ , respectively. Additionally, the noise power of the satellite receiver at ABS is  $N_{sd} = \kappa T_{sd} B_s$ .

### 3. SATCON

#### 3.1. ABS placement process

For the intelligent integration of the ABS into the existing satellite network, the combination of the k-means and kmedoids unsupervised ML methods is utilized. The two algorithms aim to find the point  $p \in W$  where  $p = (x_1^p, y_1^p, z_1^p)$  so that the sum of the distances of the users from this point is minimized. The total within-cluster dissimilarity of the kmeans c and k-medoids m algorithms is  $A_q = \sum_{u_i \in U} \|u_i - p_q\|^2$ , where  $q = \{c, m\}$ . The objective of these two methods is to determine the point  $p_q$  that minimizes  $A_q$  and it can be expressed as follows

$$\arg \min_{p_q \in W} \sum_{u_i \in U} \|u_i - p_q\|^2. \quad (2)$$

From the two suggested points,  $p_c$  and  $p_m$ , given from kmeans and k-medoids, respectively, if  $A_c < A_m$  then  $p = p_c$ , otherwise  $p = p_m$ . Due to the nature of these two ML methods to create groups through the input data, i.e., the coordinates of the users  $U$ , the initial height of the ABS will be the same as the average height of the users. Therefore, to obtain the optimal altitude at which ABS provides the best quality of service (QoS) to the MTs, first, we should identify the farther  $MT_i$  from the point  $p$ , where ABS is placed. Thereinafter, we should determine the height of the ABS  $h$  where pathloss with the  $MT_i$  is minimized through solving  $\frac{\partial L_i^{\text{A2G}}(h, r_i)}{\partial h} = 0$ .

#### 3.2. Satellite NOMA transmission

For the satellite transmission, each  $MT_l$  ( $1 \leq l \leq N$ ) periodically reports the channel state information (CSI) of the LMS channel to the satellite that receives the complex channel coefficient  $h_l^s$  and calculates the channel gain including additional gains, losses, and the noise power of the satellite receiver  $N_s$  as

$$\Gamma_l^s = \frac{G_l^s G_r^s}{L_l^{\text{FS}} N_s} |h_l^s|^2. \quad (3)$$

The satellite aims to create  $K$  pairs of MTs, where each pair will share the same sub-channel in the power and time domain, assigning different power allocation factors of the

total satellite power  $P_s$  to each MT belonging to a pair. Towards this end, a NOMA optimal user pairing policy is adopted, where the satellite sorts the MTs in ascending order by the channel gain  $\Gamma_1^s \leq \Gamma_2^s \leq \dots \leq \Gamma_{2K}^s$  and matches the user  $MT_k$  with the user  $MT_{2K-k+1}$ , for  $1 \leq k \leq K$ . Hence, each pair consists of the strong satellite channel user  $MT_j^s$ , and the weak satellite channel user  $MT_i^s$ , with channel gains  $\Gamma_j^s \geq \Gamma_i^s$ , respectively.

The optimal power allocation factor  $\beta_j^s$  can be calculated by the following expression

$$\beta_j^s = \frac{\sqrt{1 + \Gamma_j^s P_s} - 1}{\Gamma_j^s P_s}. \quad (4)$$

According to the principle of NOMA,  $MT_i^s$  will immediately decode its own signal by the received satellite signal, while  $MT_j^s$  should first estimate the signal of the  $MT_i^s$  and then perform successive interference cancellation (SIC) to retrieve its own signal. The achievable rates of  $MT_j^s$  and  $MT_i^s$  are

$$R_j^s = \frac{B_s}{K} \log_2 \left( 1 + \beta_j^s P_s \Gamma_j^s \right), \quad (5)$$

$$R_i^s = \frac{B_s}{K} \log_2 \left( 1 + \frac{(1 - \beta_j^s) P_s \Gamma_i^s}{\beta_j^s P_s \Gamma_i^s + 1} \right). \quad (6)$$

### 3.3. ABS hybrid NOMA/OMA transmission

As described previously, ABS is integrated into the satellite network to improve the QoS of terrestrial users. Towards this end, the ABS should first receive and decode the NOMA superimposed signals of each pair of MTs via the S2A channel. The S2A channel gain can be expressed as

$$\Lambda_{sd} = \frac{G_t^s G_r^{sd}}{L_{sd}^{FS} N_{sd}}. \quad (7)$$

The maximum achievable decoding rates which succeed by the ABS through the S2A channel for each  $MT_j^s$  and  $MT_i^s$  in pair are

$$R_j^{sd} = \frac{B_s}{K} \log_2 \left( 1 + \beta_j^s P_s \Lambda_{sd} \right), \quad (8)$$

$$R_i^{sd} = \frac{B_s}{K} \log_2 \left( 1 + \frac{(1 - \beta_j^s) P_s \Lambda_{sd}}{\beta_j^s P_s \Lambda_{sd} + 1} \right). \quad (9)$$

Note that, the ABS obtains all the pair indices from the VLEO through a dedicated control channel to identify the users comprising each pair and their role, e.g., strong or weak satellite channel users. Also, the ABS acquires the achievable rate  $R_l^s$  of each  $MT_l$  with the satellite, through the same channel.

Next, the ABS should forward the decoded signals to the MTs through the A2G channel, utilizing the proposed hybrid NOMA/OMA transmission scheme. Consequently, we consider that each  $MT_l$  reports the CSI of the corresponding A2G link to the ABS. Therefore, the ABS calculates the channel gain of the A2G link for each M Tl as follows

$$\Gamma_l^d = \frac{G_f^d G_r^d}{L_l^{A2G}(h, r_l) N_d} |h_l^d|^2. \quad (10)$$

Following the same NOMA user pairing policy as the VLEO, the ABS forms  $K$  MT pairs, considering now the channel gains of the A2G links. Therefore, each pair consists of the strong A2G channel user  $MT_j^d$ , and the weak A2G channel user  $MT_i^d$ , where  $\Gamma_j^d \geq \Gamma_i^d$ . Subsequently, calculates the optimal power allocation factor  $\beta_j^d$  for the  $MT_j^d$  by replacing

s with d in expression 4. Also, the achievable rates in NOMA,  $R_j^d$  and  $MT_i^d$ , are given by the expressions 5 and 6, respectively, by replacing again s with d. The rates that ABS can offer to  $MT_j^d$  and  $MT_i^d$ , utilizing the NOMA technique, are  $R_j^{dn} = \min(R_j^d, R_j^{sd})$  and  $R_i^{dn} = \min(R_i^d, R_i^{sd})$ , respectively.

Lastly, the ABS has to decide whether it is profitable for each pair of MTs to transmit the superimposed signal or to transmit only the signal of one MT of each pair utilizing the OMA technique. Also, the ABS can avoid forwarding the satellite signals if the ABS transmission is not profitable for both MTs in pair. Therefore, the achievable rate that each  $MT_l$  can achieve from the ABS through OMA, is equal to

$$R_l^o = \frac{B_d}{K} \log_2(1 + P_d \Gamma_l^d). \quad (11)$$

Each  $MT_l$  will experience higher rates if the ABS uses OMA, i.e.,  $R_l^o \geq R_l^d$ , since the same bandwidth as NOMA is allocated for OMA transmission, and whole  $P_d$  is allocated to  $MT_l$ . However, the maximum achievable OMA rate of  $MT_l$  is restricted by the expression  $R_l^{do} = \min(R_l^o, R_l^{sd})$ , since the ABS may provide a higher rate to the  $MT_l$ , but the rate at which ABS decoded its signal from the VLEO is lower and vice versa. There are four different cases that the ABS considers for each MT pair

- **if  $R_i^s < R_i^{dn}$  and  $R_j^s < R_j^{dn}$ :** In this case, the pair of MTs formed by the ABS profits from the NOMA transmission as both MTs achieve greater rates if served from the ABS instead of the satellite.
- **if  $R_i^s < R_i^{dn}$  and  $R_j^s \geq R_j^{dn}$ :** In this case, only  $MT_i^d$  profits from the ABS transmission. Thus, the ABS utilizes OMA and transmits only to  $MT_i^d$  or the timeslot allocated to this pair.  $MT_i^d$  achieves a rate equal to  $R_i^{do}$ .
- **if  $R_i^s \geq R_i^{dn}$  and  $R_j^s < R_j^{dn}$ :** In this case, only  $MT_j^d$  profits from the ABS transmission. Therefore, the ABS utilizes OMA and transmits only to  $MT_j^d$  for the timeslot allocated to this pair.  $MT_j^d$  achieves a rate equal to  $R_i^{do}$ .
- Otherwise, the communication for this MT pair is not profitable and ABS does not transmit to these pair of users in order to save resources.

## 4. Results

This section may be divided by subheadings. It should provide a concise and precise description of the experimental results, their interpretation as well as the experimental conclusions that can be drawn.

### 4.1. Subsection

#### 4.1.1. Subsubsection

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- First bullet;
- Second bullet;
- Third bullet.

Numbered lists can be added as follows:

1. First item;
2. Second item;
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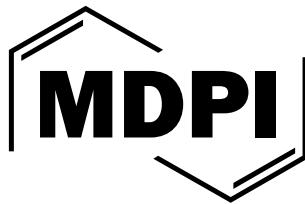
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#### 4.2. Figures, Tables and Schemes

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All figures and tables should be cited in the main text as Figure 1, Table 1, etc.

195



**Figure 1.** This is a figure. Schemes follow the same formatting.

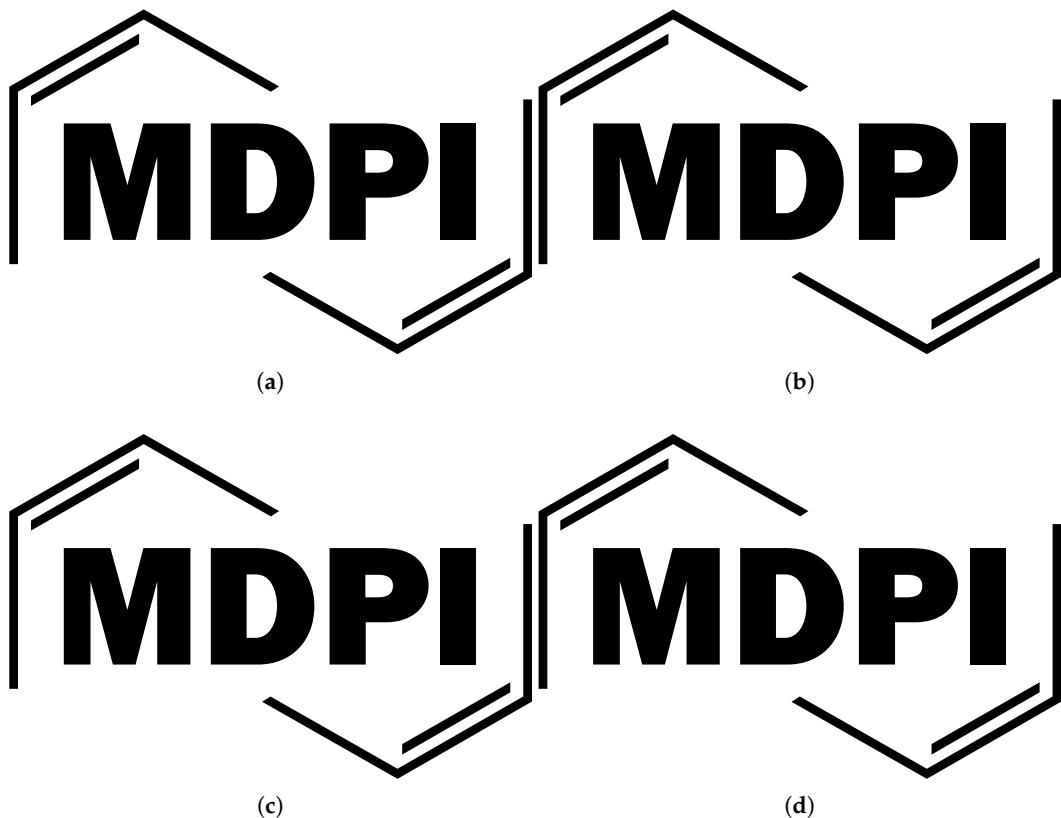
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Title 1	Title 2	Title 3
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Entry 2	Data	Data <sup>1</sup>

<sup>1</sup> Tables may have a footer.

The text continues here (Figure 2 and Table 2).

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**Figure 2.** This is a wide figure. Schemes follow the same formatting. If there are multiple panels, they should be listed as: (a) Description of what is contained in the first panel. (b) Description of what is contained in the second panel. (c) Description of what is contained in the third panel. (d) Description of what is contained in the fourth panel. Figures should be placed in the main text near to the first time they are cited. A caption on a single line should be centered.

**Table 2.** This is a wide table.

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\* Tables may have a footer.

- Text. 197  
Text. 198
- 4.3. Formatting of Mathematical Components** 199
- This is the example 1 of equation: 200
- $$a = 1, \quad (12)$$
- the text following an equation need not be a new paragraph. Please punctuate equations as regular text. 201  
regular text. 202
- This is the example 2 of equation: 203
- $$a = b + c + d + e + f + g + h + i + j + k + l + m + n + o + p + q + r + s + t + u + v + w + x + y + z \quad (13)$$
- Please punctuate equations as regular text. Theorem-type environments (including propositions, lemmas, corollaries etc.) can be formatted as follows: 204  
propositions, lemmas, corollaries etc.) can be formatted as follows: 205
- Theorem 1.** *Example text of a theorem.* 206
- The text continues here. Proofs must be formatted as follows: 207
- Proof of Theorem 1.** Text of the proof. Note that the phrase “of Theorem 1” is optional if it is clear which theorem is being referred to. □ 208  
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- The text continues here. 210
- 5. Discussion** 211
- Authors should discuss the results and how they can be interpreted from the perspective of previous studies and of the working hypotheses. The findings and their implications should be discussed in the broadest context possible. Future research directions may also be highlighted. 212  
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be highlighted. 215
- 6. Conclusions** 216
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unusually long or complex. 218
- 7. Patents** 219
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work reported in this manuscript. 221
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## Abbreviations

The following abbreviations are used in this manuscript:

MDPI	Multidisciplinary Digital Publishing Institute
DOAJ	Directory of open access journals
TLA	Three letter acronym
LD	Linear dichroism

## Appendix A

### Appendix A.1

The appendix is an optional section that can contain details and data supplemental to the main text—for example, explanations of experimental details that would disrupt the flow of the main text but nonetheless remain crucial to understanding and reproducing the research shown; figures of replicates for experiments of which representative data are shown in the main text can be added here if brief, or as Supplementary Data. Mathematical proofs of results not central to the paper can be added as an appendix.

**Table A1.** This is a table caption.

Title 1	Title 2	Title 3
Entry 1	Data	Data
Entry 2	Data	Data

## Appendix B

All appendix sections must be cited in the main text. In the appendices, Figures, Tables, etc. should be labeled, starting with “A”—e.g., Figure A1, Figure A2, etc.

## References

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- Author 1, A.; Author 2, B. *Book Title*, 3rd ed.; Publisher: Publisher Location, Country, 2008; pp. 154–196.
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